

Basic Data
Relating to the
National Institutes
of Health

NIH Data Book

1987



1887 A CENTURY OF SCIENCE FOR HEALTH 1987

GRANTS

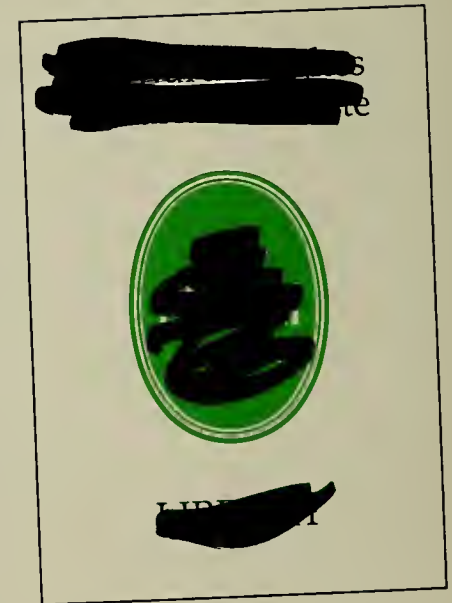
RA
11
.D159
1987

U.S. DEPARTMENT
OF HEALTH AND
HUMAN SERVICES

Public Health
Service

National Institutes
of Health

Prepared by the staffs of the
Office of Program Planning & Evaluation
and the
Division of Research Grants
NATIONAL INSTITUTES OF HEALTH
December 1987



NIH LIBRARY

DEPARTMENT OF HEALTH AND HUMAN SERVICES PUBLIC HEALTH SERVICE

NATIONAL INSTITUTES OF HEALTH

Office of Director

National Institute
on Aging

National Institute
of Allergy and
Infectious Diseases

National Institute
of Arthritis and
Musculoskeletal
and Skin Diseases

National Cancer
Institute

National Institute
of Child Health
and Human
Development

National Institute
of Dental
Research

National Institute
of Diabetes and
Digestive and
Kidney Diseases

National Institute
of Environmental
Health Sciences

National Eye
Institute

National Institute
of General Medical
Sciences

National Heart,
Lung and Blood
Institute

National Institute of
Neurological and
Communicative
Disorders and Stroke

National Library
of Medicine

Division of
Computer Research
and Technology

Division of
Research Grants

Division of
Research
Resources

Division of
Research Services

Clinical Center

Fogarty
International
Center

National Center
for Nursing
Research

CONTENTS

NIH in the National Health Scene

National Health R&D, 1977 and 1986, as Related to Total R&D and Total Health Cost (Figure 1)	1
National Support for Health R&D by Source or Performer, 1977-1987 (Table 1)	2
National Support for Health R&D by Source and Performer, 1986 (Table 2)	3
National Support for Health R&D by Source, 1977-1987 (Figure 2)	4
Federal Obligations for Health R&D by Source or Performer, Fiscal Years 1977-1986 (Table 3)	5
NIH Basic Research Support, Fiscal Year 1985 (Figure 3)	6

NIH Appropriations and Obligations

NIH Appropriations by NIH Component, Fiscal Years 1977-1987 (Table 4)	7
NIH Obligations by Function/Mechanism, Fiscal Years 1977-1986 (Table 5)	8
NIH Obligations by NIH Component, Fiscal Years 1977-1986 (Table 6)	9
NIH Obligations by NIH Component, Program Activity, and Function/Mechanism, Fiscal Year 1986 (Table 7)	10
NIH Obligations for Prevention Research by NIH Component, Fiscal Years 1981-1986 (Table 8)	15

NIH Appropriations and Obligations (Cont.)

NIH Obligations for Nutrition Research and Training by NIH Component, Fiscal Years 1977-1986 (Table 9)	16
Obligations for Acquired Immunodeficiency Syndrome (AIDS) Research by NIH and Other PHS Components, Fiscal Years 1982-1987 (Table 10)	17
* NIH Obligations for Biotechnology Research by NIH Component, Fiscal Years 1985-1986 (Table 11)	18
* NIH Obligations for Clinical Trials by NIH Component, Fiscal Years 1981-1986 (Table 12)	19

NIH Extramural Awards

NIH Awards by Funding Mechanism, Fiscal Years 1977-1986 (Table 13)	20
NIH Awards by NIH Component and Funding Mechanism, Fiscal Year 1986 (Table 14)	21
NIH Awards by NIH Component and Funding Mechanism, Fiscal Years 1977-1986 (Table 15)	22
NIH Awards by Kind of Performing Institution and Funding Mechanism, Fiscal Year 1986 (Table 16)	26
NIH Awards by Kind of Performing Institution, Selected Fiscal Years 1977-1986 (Table 17)	28
NIH Awards by NIH Component and Performing Institution, Fiscal Year 1986 (Table 18)	29
NIH Awards to U.S. Institutions of Higher Education by Component and Funding Mechanism, Fiscal Year 1986 (Table 19)	30

* New this year.

NIH Extramural Awards (Cont.)

NIH Awards by State and Funding Mechanism, Fiscal Year 1986 (Table 20)	32
NIH Awards to U.S. Medical Schools by Funding Mechanism, Fiscal Years 1977-1986 (Table 21)	34
Number of Awards and Award Rates for NIH Competing Research Projects by NIH Component, Selected Fiscal Years 1977-1986 (Table 22)	35
Number of Applications for NIH Competing Research Projects Reviewed, Eligible for Funding, and Awarded, Fiscal Years 1977-1986 (Figure 4)	36
Applications for NIH Competing Research Projects Reviewed, Recommended for Approval by Councils, Eligible for Funding, and Awarded, Fiscal Years 1977-1986 (Table 23)	37
NIH Research Grants by Type, Fiscal Years 1977-1986 (Figure 5)	38
NIH Research Grants by Type, Fiscal Years 1977-1986 (Table 24)	39
NIH Competing and Noncompeting Research Grants by NIH Component and Type, Fiscal Year 1986 (Table 25)	40
NIH Competing and Noncompeting Research Grants by Kind and Type, Fiscal Year 1986 (Table 26)	41
NIH Research Grants by Kind of Grant and NIH Component, Fiscal Year 1986 (Table 27)	42
NIH Research Grants by Kind of Grant, Fiscal Years 1977-1986 (Table 28)	45
* Number of NIH Research Grants with Dollars Budgeted for Equipment and Amounts Budgeted by Kind of Grant, Fiscal Years 1977-1986 (Table 29)	46

* New this year.

NIH Extramural Awards (Cont.)

Indirect Costs of NIH Research Grants by Type of Performer, Selected Fiscal Years 1979-1986 (Table 30)	48
Average Size of NIH Awards by Kind of Award, Selected Fiscal Years 1977-1986 in Current and Constant Dollars (Table 31)	49
Average Size of Traditional Research Project (R01) Awards by NIH Component, Selected Fiscal Years 1977-1986 in Current and Constant Dollars (Table 32)	50
* Average Length in Years of Competing Traditional Research Project (R01) Awards by NIH Component, Fiscal Years 1977-1986 (Table 33)	51
Average Size of NIH Awards by Kind of Award and NIH Component, Fiscal Year 1977, and Fiscal Year 1986 in Current and Constant Dollars (Table 34)	52
* Number of NIH Major Career Development Awards by Recipient's Type of Doctorate, Fiscal Years 1977-1986 (Table 35)	55

NIH Research Training

Number of NIH Full-Time-Equivalent Training Positions (FTTP) by Academic Level, and NIH Component, Fiscal Year 1986 (Figure 6)	56
Number of NIH Full-Time-Equivalent Training Positions (FTTP) by Academic Level, NIH Component, and Type, Fiscal Years 1977-1986 (Table 36)	57
Number of Persons in NIH Research Training Programs by Academic Level, Fiscal Years 1980-1986 (Figure 7)	60

* New this year.

NIH Staff

NIH Personnel by Degree Held, Type of Occupation, NIH Component, Program, and Status as of end of Fiscal Year 1986 (Table 37)	62
--	----

Clinical Center

Clinical Center Data on NIH by Component, and on NIMH and NIAAA, Fiscal Years 1980, 1983, and 1986 (Table 38)	64
--	----

National Mortality and Morbidity Data

Mortality From Selected Causes, United States, 1974 and 1984 (Table 39)	65
--	----

Morbidity From Selected Chronic Conditions, United States, 1985 (Table 40)	66
---	----

Morbidity From Selected Acute Conditions, United States, 1985 (Table 41)	67
---	----

* Incidence of AIDS Among Adults and Children in the United States by Transmission Category, 1982-1986 (Figure 8)	68
--	----

Technical Notes	69
-----------------------	----

Definitions	70
-------------------	----

Abbreviations	72
---------------------	----

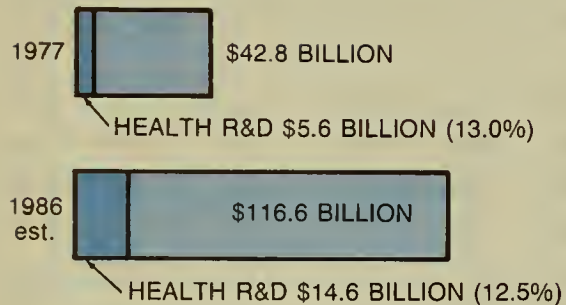
Index	74
-------------	----

NIH Biomedical Research and Development Price Index (BRDPI), Fiscal Years 1977-1986 (Weight Base = Fiscal Year 1984)	(Inside back cover)
---	---------------------

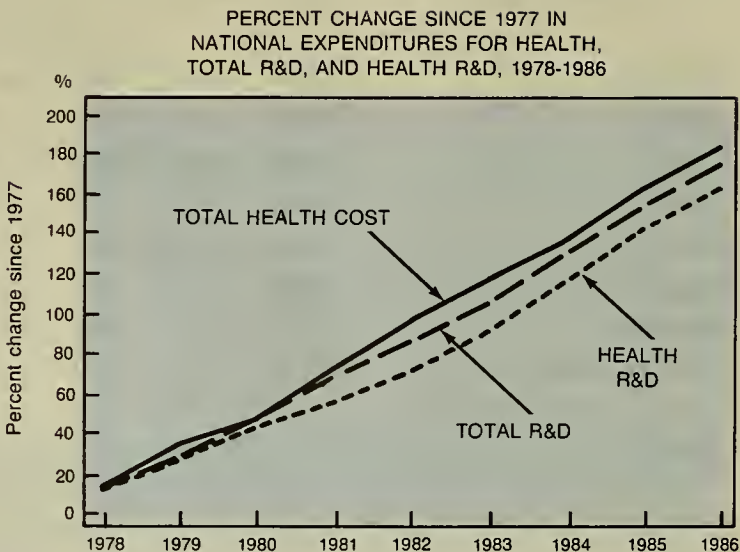
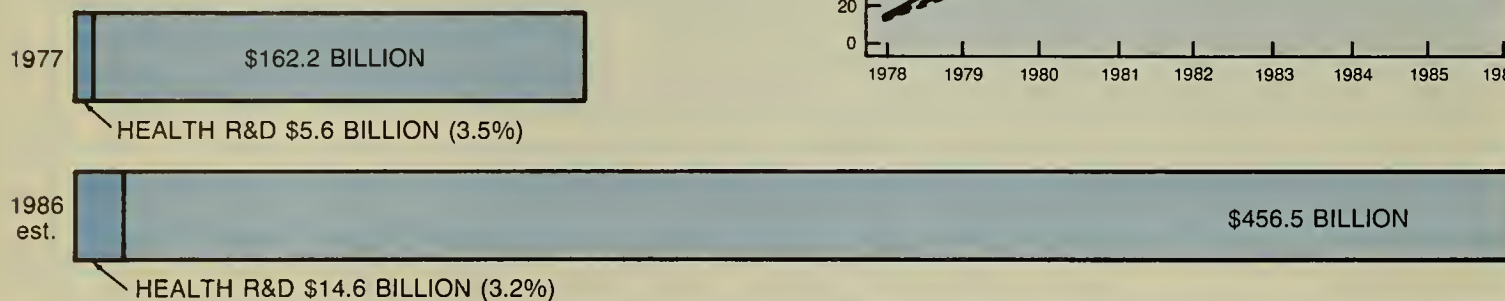
* New this year.

Figure 1
NATIONAL HEALTH R&D, 1977 AND 1986, AS RELATED TO...

...TOTAL R&D *



...TOTAL HEALTH COST†



* Sources: National Science Foundation and NIH. † Sources: HCFA and NIH.

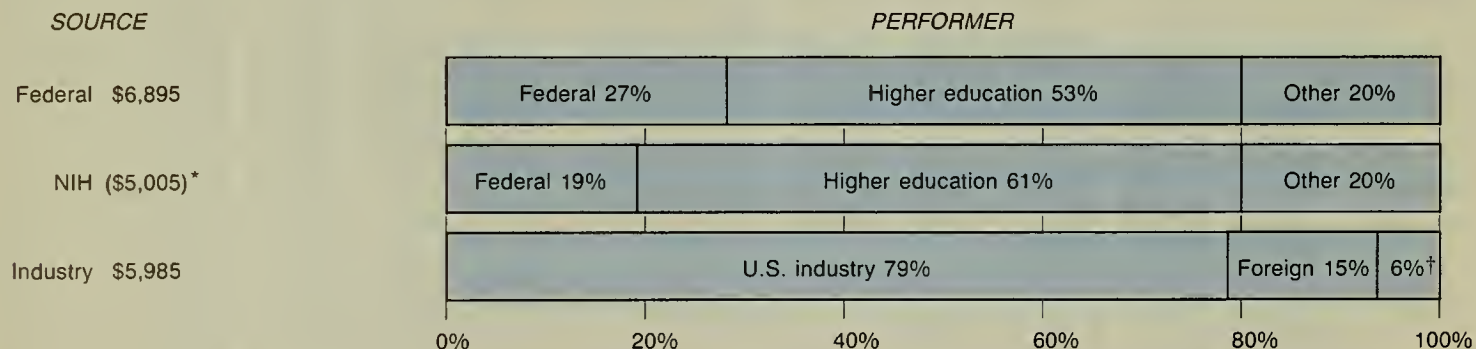
Table 1
NATIONAL SUPPORT FOR HEALTH R&D BY SOURCE OR PERFORMER, 1977-1987*
 (Millions of Dollars)

Sector	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986 (est.)	1987 (proj.)
Total of A or B	\$5,568	\$6,262	\$7,135	\$7,969	\$8,645	\$9,450	\$10,535	\$11,899	\$13,346	\$14,605	\$16,180
<i>A. BY SOURCE OF FUNDS</i>											
Government	3,734	4,226	4,786	5,224	5,423	5,622	6,125	6,887	7,660	7,910	8,714
Federal	3,396	3,811	4,321	4,723	4,848	4,970	5,399	6,087	6,791	6,895	7,640
NIH	(2,280)	(2,581)	(2,953)	(3,182)	(3,333)	(3,433)	(3,789)	(4,257)	(4,828)	(5,005)	(5,521)
State & local	338	415	465	501	575	652	726	800	869	1,015	1,074
Industry	1,614	1,800	2,093	2,466	2,921	3,504	4,035	4,525	5,190	5,985	6,778
Private nonprofit	220	236	256	279	301	324	375	487	496	710	688
Foundations	71	65	60	54	52	44	82	113	89	85	88
Voluntary health agencies	102	113	131	148	161	177	182	185	210	239	268
Howard Hughes Medical Institute	—	—	—	—	—	—	—	79	65	247	183
Other	47	58	65	77	88	103	111	110	132	139	149
<i>B. BY PERFORMER</i>											
Government	1,012	1,196	1,308	1,487	1,572	1,665	1,810	1,991	2,133	2,144	2,417
Federal†	868	1,032	1,120	1,284	1,363	1,448	1,577	1,741	1,869	1,847	2,103
State & local	144	164	188	203	209	217	233	250	264	297	314
Industry‡	1,546	1,680	1,932	2,256	2,590	3,083	3,518	4,001	4,517	5,116	5,779
Private nonprofit	2,707	3,049	3,492	3,726	3,945	4,117	4,588	5,224	5,905	6,386	6,927
Higher education‡	2,135	2,430	2,802	3,006	3,202	3,353	3,722	4,261	4,820	5,260	5,672
Other‡	572	619	690	720	743	764	866	963	1,085	1,126	1,255
Foreign	303	337	403	500	538	585	619	683	791	959	1,057

* Revised. † Includes program management & direct operations attributable to health R&D in addition to in-house research. ‡ Includes Federally Funded R&D Centers.

Table 2
NATIONAL SUPPORT FOR HEALTH R&D BY SOURCE AND PERFORMER, 1986 (EST.)
 (Millions of Dollars)

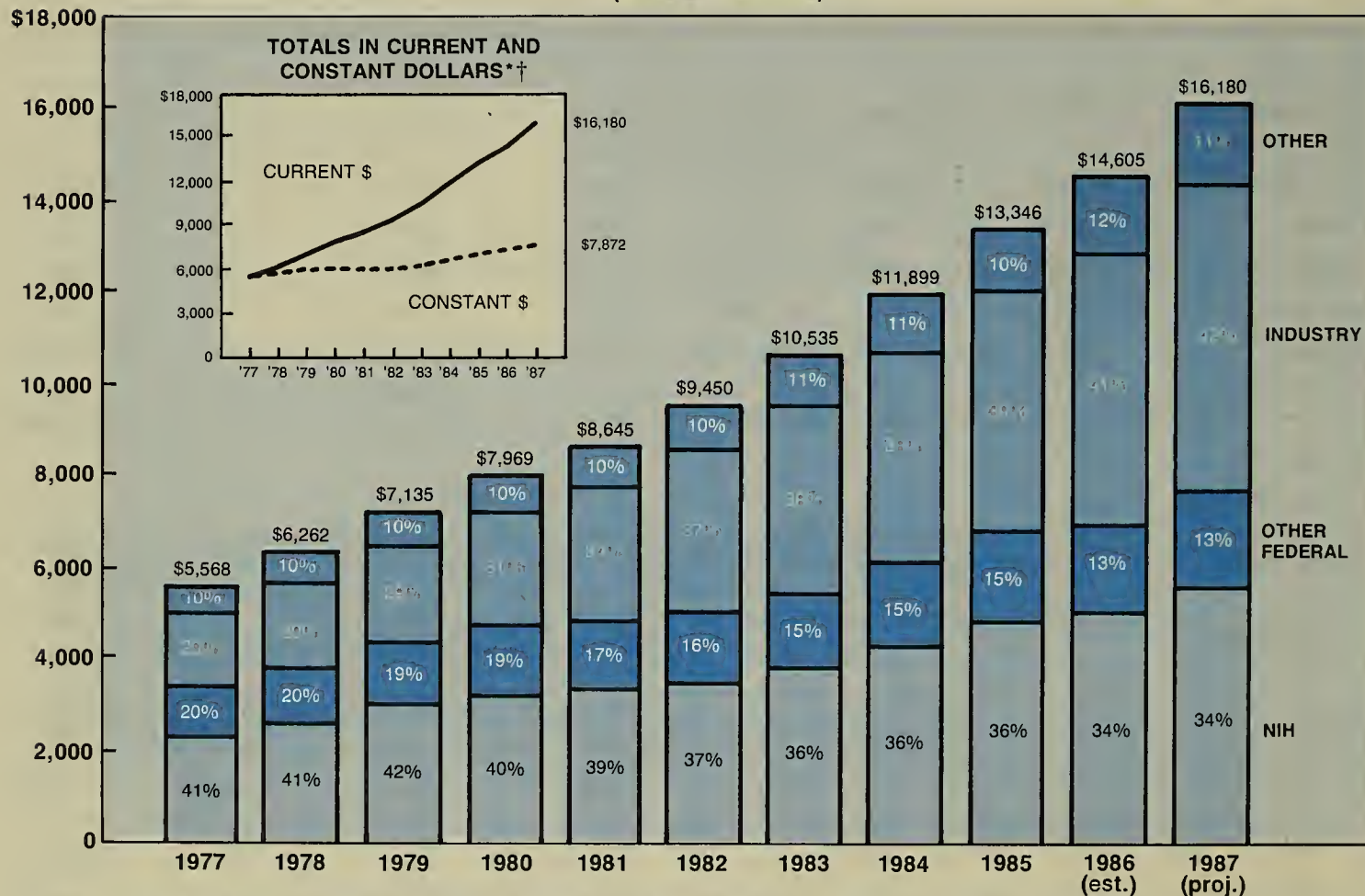
Source of support	Total	Performer					
		Federal	State and local	Industry	Higher education	Other nonprofit	Foreign
Total	\$14,605	\$1,847	\$297	\$5,116	\$5,260	\$1,126	\$959
Federal	6,895	1,845	63	377	3,685	879	46
NIH*	(5,005)	(958)	(44)	(180)	(3,070)	(729)	(24)
State & local	1,015	—	217	2	794	2	—
Industry	5,985	—	17	4,737	222	108	901
Private nonprofit	710	2	—	—	559	137	12



* Includes research grants (74%), contracts (7%), intramural research (12%), and appropriate management costs, interagency agreements, etc. (7%).

† Other.

Figure 2
NATIONAL SUPPORT FOR HEALTH R&D BY SOURCE, 1977-1987
(Dollars in Millions)



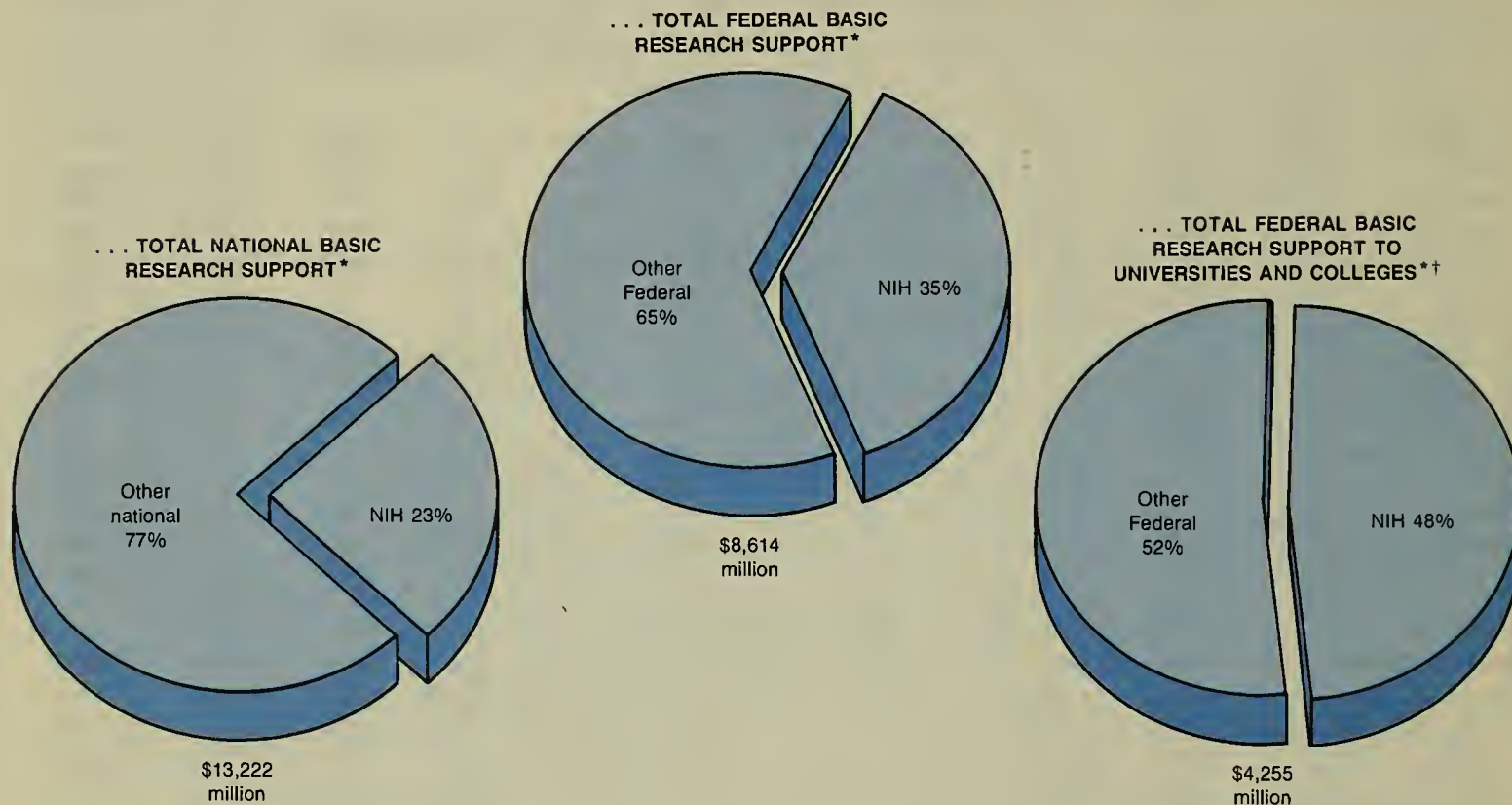
* Constant dollars based on biomedical R&D price index (see inside back cover). †FY 1977 = 100. Projected to 205.54 for 1987, based on percentage increase in estimated GNP implicit price deflator.

Table 3
FEDERAL OBLIGATIONS FOR HEALTH R&D BY SOURCE OR PERFORMER, FISCAL YEARS 1977-1986
(Millions of Dollars)

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986 (est.)
Total of A or B	\$3,395.9	\$3,811.2	\$4,321.2	\$4,722.6	\$4,848.4	\$4,970.2	\$5,399.3	\$6,087.1	\$6,790.8	\$6,895.3
<i>A. BY SOURCE OF FUNDS</i>										
HHS (HEW)	2,651.5	3,012.6	3,450.7	3,694.0	3,826.8	3,890.7	4,317.0	4,800.3	5,411.4	5,593.6
NIH	2,279.9	2,580.9	2,953.1	3,181.8	3,333.2	3,433.1	3,789.2	4,257.5	4,827.7	5,005.0
Other PHS	308.4	364.3	419.9	458.0	444.1	422.4	484.4	499.0	545.5	556.8
Other HHS (HEW)	63.2	67.5	77.6	54.1	49.5	35.1	43.3	43.8	38.2	31.8
Other agencies	744.4	798.6	870.5	1,028.6	1,021.6	1,079.5	1,082.3	1,286.8	1,379.4	1,301.7
Agriculture	85.6	96.5	112.4	147.3	149.5	161.9	147.2	147.9	142.6	77.6
Defense	150.5	164.4	186.4	211.0	242.9	279.7	307.4	414.2	439.9	496.4
Education*	—	—	—	32.1	30.8	29.8	29.3	41.0	38.2	44.0
Energy (ERDA, AEC)	181.2	193.2	191.8	210.9	188.0	197.0	168.5	182.7	177.5	164.3
Environmental Protection	56.2	56.6	67.2	78.1	74.5	48.7	39.9	43.5	53.3	32.2
Int'l Dev Coop Agency (AID)	23.7	17.2	20.2	13.4	11.4	25.8	31.1	17.7	38.5	29.4
Aeronautics & Space	47.8	56.6	41.4	71.8	67.7	79.0	76.0	110.2	116.6	129.9
National Science Foundation	55.4	65.3	73.8	75.7	67.2	75.3	77.0	86.8	89.3	81.4
Veterans	107.0	114.0	127.0	133.4	144.4	137.3	161.4	190.3	226.6	186.2
Other	37.0	34.9	50.3	54.9	45.2	45.1	44.5	52.4	56.9	60.2
<i>B. BY PERFORMER</i>										
Intramural (Federal)	865.9	1,031.0	1,119.1	1,282.9	1,362.2	1,446.4	1,574.9	1,739.0	1,867.3	1,845.3
Extramural (non-Federal)	2,529.9	2,780.2	3,202.2	3,439.7	3,486.2	3,523.7	3,824.4	4,348.0	4,923.5	5,050.0
State & local	61.4	54.3	65.5	72.3	63.9	57.1	60.4	65.6	61.6	63.4
Industry†	254.0	256.0	287.4	352.0	306.3	295.4	276.4	361.9	363.5	376.5
Private nonprofit	2,168.0	2,419.6	2,802.6	2,970.8	3,078.0	3,125.6	3,450.8	3,875.9	4,450.4	4,564.2
Higher education†	1,696.2	1,909.7	2,230.6	2,377.5	2,477.9	2,520.2	2,760.4	3,124.9	3,587.6	3,685.3
Medical schools	(1,003.6)	(1,146.9)	(1,349.4)	(1,424.6)	(1,519.2)	(1,524.8)	(1,718.9)	(1,906.2)	(2,246.7)	(2,327.5)
Other†	471.8	509.8	572.0	593.3	600.1	605.4	690.4	750.9	862.8	878.8
Foreign	46.5	50.3	46.7	44.7	38.0	45.6	36.9	44.7	47.9	46.0

*Office of Handicapped Research, formerly part of "Other HHS (HEW)." †Includes FFRDCs.

Figure 3
NIH BASIC RESEARCH SUPPORT, FISCAL YEAR 1985
AS COMPARED WITH . . .



*Total basic research figures represent all disciplines, (including life sciences, psychology, physical sciences, mathematics and computer sciences, engineering, environmental sciences, and social sciences), and national total includes all sources (Federal, State and local governments, industry, and private nonprofit sources). †Figures shown in last year's Data Book for 1984 Federal basic research support to universities and colleges were incorrect. The total should have been \$3,782 million, with 46 percent provided by NIH and 54 percent from other Federal sources.

Sources: National Science Foundation and NIH.

Table 4
NIH APPROPRIATIONS BY NIH COMPONENT, FISCAL YEARS 1977-1987
Excluding Programs That Have Been Transferred Out
(Dollars in Thousands)

NIH component	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	Percent change 1977-87	Percent change 1986-87
Total	\$2,544,078	\$2,842,936	\$3,189,976	\$3,428,935	\$3,569,406	\$3,641,875	\$4,023,969	\$4,476,141	\$5,144,650	\$5,494,398	\$6,180,660	142.9%	12.5%
I/RD—total	2,424,510	2,720,767	3,097,138	3,360,670	3,490,459	3,563,324	3,929,843	4,374,768	5,028,770	5,304,749	6,030,214	148.7	13.7
NIA	30,000	37,305	56,911	69,988	75,608	81,903	93,996	114,921	144,444	156,352	176,931	489.8	13.2
NIAID	141,000	162,341	191,328	215,364	232,077	235,895	279,129	314,117	370,779	383,231	545,523	286.9	42.3
NIADDK	219,600	260,253	302,767	341,206	369,462	368,191	413,492	462,578	542,937	568,724	—	—	—
NIAMS	—	—	—	—	—	—	—	—	—	—	138,713	—	—
NCI	815,000	872,388	936,737	999,869	989,355	986,617	987,642	1,077,303	1,181,949	1,256,147	1,402,837	72.1	11.7
NICHD	145,543	166,390	197,630	208,953	220,628	226,309	254,324	275,179	313,150	321,581	366,780	152.0	14.1
NIDR	55,573	61,728	65,213	68,303	71,114	71,983	79,292	88,163	100,633	103,207	117,945	112.2	14.3
NIDDK	—	—	—	—	—	—	—	—	—	—	511,124	—	—
NIEHS	51,141	64,241	78,080	83,893	93,491	106,270	164,867	179,806	194,553	197,379	209,294	309.2	6.0
NEI	64,000	85,400	105,192	112,989	117,983	127,374	141,901	154,683	181,586	194,993	216,637	238.5	11.1
NIGMS	205,000	230,796	277,628	312,468	333,764	339,862	369,813	415,644	482,168	514,528	570,916	178.5	11.0
NHLBI	396,661	447,909	510,134	527,488	549,693	559,637	624,259	703,197	804,456	858,570	930,001	134.5	8.3
NINCDS	155,500	178,438	212,365	241,966	252,533	265,901	297,064	335,205	396,683	433,094	490,233	215.3	13.2
DRR	137,500	145,095	154,164	169,196	175,627	184,177	213,917	242,636	303,854	305,553	322,860	134.8	5.7
FIC	7,992	8,483	8,989	8,987	9,124	9,205	10,147	11,336	11,578	11,390	11,420	42.9	0.3
NCNR	—	—	—	—	—	—	—	—	—	—	19,000	—	—
NLM	35,234	37,619	41,431	43,979	44,666	45,035	51,943	49,613	55,848	57,759	61,838	75.5	7.1
OD	16,934	18,900	20,457	21,036	22,531	23,618	24,683	26,720	38,302	116,990	56,708	234.9	-51.5
Bldgs. & facilities	67,400	65,650	30,950	3,250	11,750	9,898	17,500	25,040	21,730	14,900	31,900	-52.7	114.1

NOTE: In 1987, NIAMS, NIDDK, and NCNR appropriations are new. Funds for NCNR in 1986 (\$16,193) were administered under OD.

Table 5
NIH OBLIGATIONS BY FUNCTION/MECHANISM, FISCAL YEARS 1977-1986
(Thousands of Dollars)

Function/mechanism	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Total	\$2,581,988	\$2,828,012	\$3,184,641	\$3,428,842	\$3,572,506	\$3,643,461	\$4,013,135	\$4,493,553	\$5,121,557	\$5,296,977
I/RD—total	2,420,685	2,716,369	3,093,986	3,350,229	3,488,327	3,565,061	3,926,898	4,390,372	5,015,302	5,107,126
Grants & contracts	2,018,103	2,258,885	2,592,827	2,800,832	2,897,444	2,925,908	3,227,751	3,637,832	4,224,397	4,327,001
R&D grants	1,422,499	1,623,908	1,930,511	2,135,481	2,313,058	2,390,218	2,686,438	3,061,235	3,554,860	3,691,860
R&D contracts	385,724	410,747	431,176	406,832	347,818	320,531	320,090	344,642	375,176	351,550
Research training	127,458	143,926	143,661	176,388	175,172	150,474	164,654	166,462	217,467	212,780
Disease control	60,482	63,749	70,107	66,699	56,165	55,192	53,569	63,282	63,794	61,372
Construction	21,940	16,555	17,372	15,432	5,231	9,493	3,000	2,211	13,100	9,439
Direct activities	402,582	457,484	501,159	549,397	590,883	639,173	699,147	752,540	790,905	780,125
Research	247,952*	284,916	345,432	377,923	413,427	451,730	498,210	539,514	571,595	571,602
Res. mgt. & support†	154,630*	172,568	155,727	171,474	177,456	187,443	200,937	213,026	219,310	208,523
NLM	34,527	35,972	40,538	43,891	44,660	44,858	45,980	50,624	55,184	55,206
OD	16,921	18,857	19,820	20,781	22,465	23,563	25,726	26,976	35,396	114,712
Buildings & facilities	109,855	56,814	30,297	13,941	17,054	9,959	14,531	25,581	15,675	19,933

*Reflects new budget structure from here on; not strictly comparable with prior years. †Management of extramural programs, ODs of I/RDs, and some management costs applicable to overall operations.

Table 6
NIH OBLIGATIONS BY NIH COMPONENT, FISCAL YEARS 1977-1986
IN CURRENT AND CONSTANT DOLLARS (Millions) * †

Fiscal year	Total	NIA	NIAID	NIADDK	NIAMS	NCI	NICHD	NIDR	NIDDK	NIEHS	NEI	NIGMS	NHLBI	NINCDS	NLM	DRR	FIC	NCNR
<i>CURRENT DOLLARS</i>																		
1977	\$2,582.0	\$ 29.9	\$140.4	\$219.4	\$ —	\$ 814.9	\$145.1	\$ 55.4	\$ —	\$ 50.9	\$ 63.7	\$204.8	\$396.5	\$154.6	\$34.5	\$137.4	\$ 7.7	\$ —
1978	2,828.0	37.1	161.8	259.9	—	872.4	165.8	61.7	—	63.9	85.2	230.4	447.8	177.3	36.0	144.8	8.3	—
1979	3,184.6	56.5	191.1	302.7	—	936.7	197.3	65.0	—	77.5	104.8	277.3	510.0	212.1	40.5	154.1	8.9	—
1980	3,428.8	69.7	214.7	340.1	—	998.0	208.3	67.6	—	83.6	109.6	312.3	527.1	241.4	43.9	169.1	8.7	—
1981	3,572.5	75.6	232.0	369.3	—	989.3	220.4	71.1	—	92.9	117.7	333.5	549.7	252.2	44.7	175.6	9.1	—
1982	3,643.5	81.8	235.8	368.2	—	986.6	226.2	72.0	—	106.1	130.3	339.8	559.6	265.5	44.9	184.1	9.2	—
1983	4,013.1	93.9	278.9	413.4	—	986.8 [‡]	254.3	79.3	—	164.6 [‡]	141.6	369.8	624.1	296.3	46.0	213.7	10.1	—
1984	4,493.6	115.2	319.6	463.7	—	1,081.5	275.5	88.4	—	180.4	155.0	415.9	705.1	336.0	50.6	243.0	11.2	—
1985	5,121.6	143.0	370.0	539.5	—	1,177.9	312.6	100.4	—	194.5	181.3	481.0	803.8	396.2	55.2	303.6	11.6	—
1986	5,297.0	150.9	367.1	—	111.3	1,210.3	308.2	98.8	436.0	188.8	186.3	493.5	821.9	414.4	55.2	292.4	10.9	16.2
<i>CONSTANT DOLLARS^{†§}</i>																		
1977	\$2,582.0	\$ 29.9	\$140.4	\$219.4	\$ —	\$ 814.9	\$145.1	\$ 55.4	\$ —	\$ 50.9	\$ 63.7	\$204.8	\$396.5	\$154.6	\$34.5	\$137.4	\$ 7.7	\$ —
1978	2,633.2	34.5	150.7	242.0	—	812.3	154.4	57.4	—	59.5	79.3	214.5	417.0	165.1	33.5	134.9	7.7	—
1979	2,739.7	48.6	164.4	260.4	—	805.9	169.8	55.9	—	66.6	90.2	238.5	438.7	182.4	34.9	132.5	7.7	—
1980	2,675.4	54.4	167.5	265.4	—	778.8	162.6	52.7	—	65.3	85.5	243.7	411.3	188.3	34.2	131.9	6.8	—
1981	2,518.9	53.3	163.6	260.4	—	697.6	155.4	50.1	—	65.5	83.0	235.1	387.5	177.8	31.5	123.8	6.4	—
1982	2,361.7	53.0	152.9	238.7	—	639.5	146.6	46.6	—	68.8	84.5	220.3	362.7	172.1	29.1	119.3	5.9	—
1983	2,437.8	57.1	169.4	251.1	—	599.4	154.5	48.2	—	100.0	86.0	224.6	379.1	180.0	27.9	129.8	6.1	—
1984	2,563.1	65.7	182.3	264.5	—	616.8	157.2	50.4	—	102.9	88.4	237.2	402.2	191.6	28.9	138.6	6.4	—
1985	2,763.8	77.2	199.7	291.1	—	635.6	168.7	54.2	—	105.0	97.8	259.6	433.8	213.8	29.8	163.9	6.2	—
1986	2,734.3	77.9	189.5	—	57.5	624.8	159.1	51.0	225.1	97.5	96.2	254.8	424.3	213.9	28.5	150.9	5.6	8.4

*OD and Buildings & Facilities are included in totals only. †Based on biomedical R&D price index (see inside back cover). ‡National Toxicology Program funding was transferred from NCI to NIEHS beginning 1983. §FY 1977 = 100.

Table 7
NIH OBLIGATIONS BY NIH COMPONENT, PROGRAM ACTIVITY, AND FUNCTION/MECHANISM, FISCAL YEAR 1986
(Thousands of Dollars)

NIH component and program activity	Total	Grants and contracts								Direct activities	
		R&D grants			R&D contracts	Research training		Cancer control	Construc- tion	Intramural research	Research management & support
		Projects	Centers	Other		Indiv.	Inst'l				
Total NIH	\$5,296,977 *	\$2,984,453	\$480,430	\$321,805	\$351,625	\$38,864	\$174,988	\$61,372	\$9,439	\$580,481	\$239,701
NIA	150,910	89,432	10,748	6,245	10,745	774	4,901	—	—	19,789	8,276
Aging	122,845	89,432	10,748	6,245	10,745	774	4,901	—	—	—	—
Intramural research	19,789	—	—	—	—	—	—	—	—	19,789	—
Research management & support	8,276	—	—	—	—	—	—	—	—	—	8,276
NIAID	367,142	244,453	6,008	5,607	26,353	1,660	9,200	—	—	57,942	15,919
Immunology; allergic & immunologic diseases	114,579	97,701	6,008	2,092	3,979	624	4,175	—	—	—	—
Microbiology & infectious diseases	178,702	146,752	—	3,515	22,374	1,036	5,025	—	—	—	—
Intramural research	57,942	—	—	—	—	—	—	—	—	57,942	—
Research management & support	15,919	—	—	—	—	—	—	—	—	—	15,919
NIAMS	111,336	80,134	9,378	5,273	2,339	963	4,849	—	—	6,295	2,105
Arthritis, musculoskeletal & skin diseases	102,936	80,134	9,378	5,273	2,339	963	4,849	—	—	—	—
Intramural research	6,295	—	—	—	—	—	—	—	—	6,295	—
Research management & support	2,105	—	—	—	—	—	—	—	—	—	2,105
NCI	\$1,210,284	\$ 559,160	\$ 88,426	\$ 67,682	\$135,432	\$ 3,917	\$ 25,595	\$61,372	\$3,114	\$208,805	\$ 56,781
Research	1,011,212	559,160	—	57,677	135,432	—	—	1,367	—	208,805	48,771
Cause & prevention research	318,641	195,034	—	2,272	58,990	—	—	—	—	47,042	15,303
Detection & diagnosis research	82,148	46,577	—	23	15,066	—	—	—	—	16,604	3,878
Treatment research	359,720	149,073	—	49,749	55,819	—	—	1,367	—	84,763	18,949
Cancer biology	250,703	168,476	—	5,633	5,557	—	—	—	—	60,396	10,641
Resource development	135,110	—	88,426	10,005	—	3,917	25,595	—	3,114	—	4,053
Cancer centers support	89,689	—	88,426	—	—	—	—	—	—	—	1,263
Research manpower development	41,943	—	—	10,005	—	3,917	25,595	—	—	—	2,426
Construction	3,478	—	—	—	—	—	—	—	3,114	—	364
Cancer control	63,962	—	—	—	—	—	—	60,005	—	—	3,957

*Obligations for Buildings and Facilities (\$19,933 thousand) are included in total only. †An additional \$2,793 thousand for Medical Library resource grants (G awards) and \$2,388 thousand for Regional Medical Library and SBIR contracts are included in totals only. ‡Library operations (\$25,367 thousand) and Toxicology Information programs (\$3,337 thousand) are included in totals only. \$NLM does not use NRSAs to support training. ||Funds appropriated to OD but transferred to I/RDs to be awarded and administered. ◇ Includes \$73 thousand for direct AIDS research in OD.

NOTE: NCNR was included in OD appropriations in FY 1986.

(Continued)

Table 7 (Cont.)
NIH OBLIGATIONS BY NIH COMPONENT, PROGRAM ACTIVITY, AND FUNCTION/MECHANISM, FISCAL YEAR 1986
(Thousands of Dollars)

NIH component and program activity	Total	Grants and contracts								Direct activities	
		R&D grants			R&D contracts	Research training		Cancer control	Construc- tion	Intramural research	Research management & support
		Projects	Centers	Other		Indiv.	Inst'l				
NICHD	\$ 308,211	\$188,157	\$26,555	\$ 8,539	\$ 21,801	\$2,721	\$11,327	\$ —	\$ —	\$ 34,705	\$14,406
Research for mothers & children	158,009	121,866	13,328	5,962	7,145	1,674	8,034	—	—	—	—
Population	101,091	66,291	13,227	2,577	14,656	1,047	3,293	—	—	—	—
Intramural research	34,705	—	—	—	—	—	—	—	—	34,705	—
Research management & support	14,406	—	—	—	—	—	—	—	—	—	14,406
NIDR	98,755	45,922	12,550	5,443	4,255	1,051	3,312	—	—	19,536	6,686
Diseases of the teeth & supporting tissues	49,247	33,902	4,148	4,317	4,155	554	2,171	—	—	—	—
Disorders of structure, function, & behavior	16,114	12,020	1,230	1,126	100	497	1,141	—	—	—	—
Dental research institutes	7,172	—	7,172	—	—	—	—	—	—	—	—
Intramural research	19,536	—	—	—	—	—	—	—	—	19,536	—
Research management & support	6,686	—	—	—	—	—	—	—	—	—	6,686
NIDDK	436,037	303,428	24,194	13,934	10,149	3,931	15,806	—	—	49,854	14,741
Diabetes, endocrinology, & metabolism	192,398	154,405	13,408	8,775	6,574	2,175	7,061	—	—	—	—
Digestive diseases & nutrition	90,099	69,872	10,786	1,838	2,263	862	4,478	—	—	—	—
Kidney disease, urology & hematology	88,945	79,151	—	3,321	1,312	894	4,267	—	—	—	—
Intramural research	49,854	—	—	—	—	—	—	—	—	49,854	—
Research management & support	14,741	—	—	—	—	—	—	—	—	—	14,741

See footnotes at beginning of table.

(Continued)

Table 7 (Cont.)
NIH OBLIGATIONS BY NIH COMPONENT, PROGRAM ACTIVITY, AND FUNCTION/MECHANISM, FISCAL YEAR 1986
(Thousands of Dollars)

NIH component and program activity	Total	Grants and contracts								Direct activities	
		R&D grants			R&D contracts	Research training		Cancer control	Construc- tion	Intramural research	Research management & support
		Projects	Centers	Other		Indiv.	Inst'l				
NIEHS	\$188,819	\$ 54,158	\$14,694	\$2,250	\$52,093	\$ 941	\$7,195	\$—	\$ —	\$51,906	\$5,582
Characterization of environmental health hazards	23,580	22,774	—	806	—	—	—	—	—	—	—
Biological response to environmental health hazards	24,872	23,874	—	998	—	—	—	—	—	—	—
Applied toxicological research & testing	54,351	3,837	—	341	50,173	—	—	—	—	—	—
Biometry and risk estimation	5,698	3,673	—	105	1,920	—	—	—	—	—	—
Resource & manpower development	22,830	—	14,694	—	—	941	7,195	—	—	—	—
Intramural research	51,906	—	—	—	—	—	—	—	—	51,906	—
Research management & support	5,582	—	—	—	—	—	—	—	—	—	5,582
NEI	186,343	142,320	5,992	2,432	6,595	2,752	2,545	—	3,167	14,813	5,727
Retinal & choroidal diseases	74,937	58,977	5,852	1,357	6,595	1,246	910	—	—	—	—
Corneal diseases	26,308	24,645	—	333	—	430	900	—	—	—	—
Cataract	13,349	12,860	140	212	—	137	—	—	—	—	—
Glaucoma	14,414	14,195	—	88	—	52	79	—	—	—	—
Strabismus, amblyopia & visual processing	33,628	31,643	—	442	—	887	656	—	—	—	—
Construction	3,167	—	—	—	—	—	—	—	3,167	—	—
Intramural research	14,813	—	—	—	—	—	—	—	—	14,813	—
Research management & support	5,727	—	—	—	—	—	—	—	—	—	5,727

See footnotes at beginning of table.

(Continued)

Table 7 (Cont.)
NIH OBLIGATIONS BY NIH COMPONENT, PROGRAM ACTIVITY, AND FUNCTION/MECHANISM, FISCAL YEAR 1986
(Thousands of Dollars)

NIH component and program activity	Total	Grants and contracts								Direct activities	
		R&D grants			R&D contracts	Research training		Cancer control	Construc- tion	Intramural research	Research management & support
		Projects	Centers	Other		Indiv.	Inst'l				
NIGMS	\$493,535	\$412,225	\$ 8,852	\$ 2,169	\$ 1,148	\$9,537	\$45,702	\$—	\$ —	\$ 748	\$13,154
Cellular & molecular basis of disease	140,604	119,355	918	209	46	2,226	17,850	—	—	—	—
Genetics	167,083	157,459	2,404	262	1,102	4,761	1,095	—	—	—	—
Pharmacological sciences	69,119	61,427	2,288	82	—	942	4,380	—	—	—	—
Biophysics & physiological sciences	94,877	73,984	3,242	1,616	—	481	15,554	—	—	—	—
Minority access to research careers	7,950	—	—	—	—	1,127	6,823	—	—	—	—
Intramural research	748	—	—	—	—	—	—	—	—	748	—
Research management & support	13,154	—	—	—	—	—	—	—	—	—	13,154
NHLBI	821,901	504,012	82,375	35,669	63,015	4,778	33,705	—	3,158	59,490	35,699
Heart and vascular diseases program	475,079	341,262	40,480	20,990	48,430	3,350	20,567	—	—	—	—
Lung diseases program	129,980	85,763	20,394	8,589	6,201	754	8,279	—	—	—	—
Blood diseases & resources program	118,495	76,987	21,501	6,090	8,384	674	4,859	—	—	—	—
Construction	3,158	—	—	—	—	—	—	—	3,158	—	—
Intramural research	59,490	—	—	—	—	—	—	—	—	59,490	—
Research management & support	35,699	—	—	—	—	—	—	—	—	—	35,699
NINCDS	414,406	281,698	28,944	14,561	12,537	4,119	8,528	—	—	47,719	16,300
Biological basis research	210,342	187,403	—	7,827	6,361	3,756	4,995	—	—	—	—
Clinical research	140,045	94,295	28,944	6,734	6,176	363	3,533	—	—	—	—
Intramural research	47,719	—	—	—	—	—	—	—	—	47,719	—
Research management & support	16,300	—	—	—	—	—	—	—	—	—	16,300

See footnotes at beginning of table.

(Continued)

Table 7 (Cont.)
NIH OBLIGATIONS BY NIH COMPONENT, PROGRAM ACTIVITY, AND FUNCTION/MECHANISM, FISCAL YEAR 1986
(Thousands of Dollars)

NIH component and program activity	Total	Grants and contracts							Direct activities		
		R&D grants			R&D contracts	Research training		Cancer control	Construc- tion	Intramural research	Research management & support
		Projects	Centers	Other		Indiv.	Inst'l				
NLM	\$ 55,206^{†‡}	\$ —	\$ —	\$ 5,898	\$ 75	\$ —	\$1,095[§]	\$—	\$—	\$8,879	\$5,374
Medical library assistance	7,511 [†]	—	—	1,235	—	—	1,095 [§]	—	—	—	—
Medical informatics	4,738	—	—	4,663	75	—	—	—	—	—	—
Intramural	37,583 [‡]	—	—	—	—	—	—	—	—	8,879	—
Research management & support	5,374	—	—	—	—	—	—	—	—	—	5,374
DRR	292,388	—	150,002	128,172	4,976	83	946	—	—	—	8,209
Clinical research	87,035	—	86,298	695	42	—	—	—	—	—	—
Biomedical research technology	42,953	—	33,766	5,108	4,079	—	—	—	—	—	—
Lab. animal sciences & primate research	38,886	—	29,938	7,064	855	83	946	—	—	—	—
Biomedical research support	91,427	—	—	91,427	—	—	—	—	—	—	—
Minority biomedical research support	23,878	—	—	23,878	—	—	—	—	—	—	—
Research management & support	8,209	—	—	—	—	—	—	—	—	—	8,209
FIC	10,866	—	1,913	4,593	—	—	—	—	—	—	4,360
Gorgas Memorial Institute	1,913	—	1,913	—	—	—	—	—	—	—	—
International research activities	4,593	—	—	4,593	—	—	—	—	—	—	—
Research management & support	4,360	—	—	—	—	—	—	—	—	—	4,360
OD	130,905	79,354	9,799	13,339	112	1,637	282	—	—	—	26,382
Research centers & minority institutions	9,799	—	9,799	—	—	—	—	—	—	—	—
Academic research enhancement awards	12,120	—	—	12,120	—	—	—	—	—	—	—
AIDS research	66,989 [◇]	66,989 [◇]	—	—	—	—	—	—	—	—	—
Research management & support	25,804	—	—	—	—	—	—	—	—	—	25,804
National Center for Nursing Research	16,193	12,365	—	1,219	112	1,637	282	—	—	—	578
Nursing research	15,615	12,365	—	1,219	112	1,637	282	—	—	—	—
Research management & support	578	—	—	—	—	—	—	—	—	—	578

See footnotes at beginning of table.

Table 8
NIH OBLIGATIONS FOR PREVENTION RESEARCH BY
NIH COMPONENT, FISCAL YEARS 1981-1986*
 (Thousands of Dollars)

NIH component	1981	1982	1983	1984	1985	1986
Total	\$542,415	\$602,549	\$957,152	\$1,075,712	\$1,180,370	\$1,237,968
NIA	16,340	17,650	43,110	60,213	84,834	89,595
NIAID	32,948	30,345	43,472	50,296	57,068	60,764
NIADDK	19,438	28,474	109,148	117,289	127,449	—
NIAMS	—	—	—	—	—	38,289
NCI	127,454	132,869	266,528	312,853	345,304	367,846
NICHD	86,710	94,958	100,467	106,514	118,957	117,865
NIDR	6,267	6,878	17,752	18,995	19,183	23,025
NIDDK	—	—	—	—	—	98,544
NIEHS	54,390	82,582	138,797	152,508	163,123	158,388
NEI	31,263	36,537	43,240	40,753	39,282	41,461
NIGMS	5,705	2,728	2,462	2,675	2,930	4,258
NHLBI	120,706	121,702	121,519	137,400	145,532	145,636
NINCDS	27,664	29,907	37,183	40,055	38,395	38,128
ORR	10,086	14,670	28,529	30,671	33,052	47,929
FIC	3,444	3,249	4,945	5,490	5,261	4,066
NCNR	—	—	—	—	—	2,174

* Consistent data are not available for prior years. For definition of prevention, see "Technical Notes."

PRIORITIES IN PREVENTION RESEARCH

AGING—Investigations of mechanisms of aging and the genetic basis for differences in aging, attempting to identify causal relationships between aging and cellular metabolism. This includes specific efforts to identify genes responsible for the onset of age-related diseases such as familial Alzheimer's disease.

AIDS—Research on vaccines and on other strategies for preventing infections by the Human Immunodeficiency Virus, and by the organisms which cause the opportunistic infections which are a hallmark of AIDS (Acquired Immunodeficiency Syndrome).

ARTHRITIS—Immunologic research, using new methods from molecular biology, to uncover how rheumatic diseases such as rheumatoid arthritis and spondyloarthropathy (spinal arthritis) are triggered by specific infectious agents.

CANCER CELL BIOLOGY—Research on oncogenes, the proteins for which they code, and the mechanisms by which they act to transform seemingly normal cells into cancerous ones.

CARDIOVASCULAR DISEASE—Providing the science base and direction for programs in high blood pressure, cholesterol, and smoking education.

DENTAL DISEASE—Studies of antiplaque and antimicrobial compounds to prevent periodontal diseases and caries.

DIABETES—Studies aimed at the prevention of the emergence and progression of non-insulin-dependent (Type II) diabetes in individuals with the inherited tendency.

DIABETIC RETINOPATHY—The Early Treatment Diabetic Retinopathy Study, a clinical trial designed to determine whether argon laser treatment—used alone or in combination with a low, daily dose of aspirin—can prevent the progression of diabetic retinopathy in patients still in the early stages of diabetic eye disease.

HIGH RISK PREGNANCY—Prevention of maternal and infant mortality and morbidity due to risk factors in pregnancy such as prematurity, intrauterine growth retardation, maternal smoking, alcohol and drug use, maternal diseases (e.g. hypertension and diabetes), and premature rupture of membranes and other perinatal events.

NEUROLOGICAL DISORDERS—Basic, clinical, epidemiologic, and behavioral studies in stroke, inborn errors of metabolism, hearing loss in old age, multiple sclerosis, epilepsy, dementias and Parkinson's disease to intercept their onset or progress.

NUTRITION AND CANCER—Clinical trials and defined population studies to verify the role of nutrition in cancer prevention, and to study potential chemopreventive agents and evaluate their toxicity and risk/benefit relationships.

NUTRITION AND HEART DISEASE—Nutrition research, education, and demonstration programs aimed at lowering cholesterol, blood lipid, and weight levels; plus the role of sodium, calcium, and nutrients in controlling high blood pressure.

POLLUTION EFFECTS—Studies to better detect and quantify low-level chronic effects of pollutants, including carcinogenesis, mutagenesis, teratogenesis, and organ toxicity in animals and man.

SMOKING—Research on school-based prevention programs, development of self-help cessation materials, involvement of physicians and dentists in patient education, use of mass media in public education, programs directed at women and minorities, and smokeless tobacco use.

UROLOGICAL DISEASE—Studies aimed at prevention of benign prostatic hyperplasia, urolithiasis (kidney stones), and recurrence of urolithiasis.

VIRUSES AND CANCER—Laboratory and epidemiologic research aimed at clarifying the role that DNA and RNA viruses play in human cancer, and the development of vaccines and other strategies for prevention.

OTHER—Osteoporosis; surveillance and control of infectious diseases and the accelerated development of vaccines against these diseases; accident prevention and injury control; and physical fitness and exercise.

Table 9
NIH OBLIGATIONS FOR NUTRITION RESEARCH
AND TRAINING BY NIH COMPONENT,
FISCAL YEARS 1977-1986
(Thousands of Dollars)

[illegible]

Table 10
OBLIGATIONS FOR ACQUIRED IMMUNODEFICIENCY SYNDROME (AIDS) RESEARCH
BY NIH AND OTHER PHS COMPONENTS, FISCAL YEARS 1982-1987*
(Thousands of Dollars)

Component	1982	1983	1984	1985	1986†	1987 (est.)
PHS, total	\$5,555	\$28,736	\$61,460	\$108,618	\$233,793	\$415,555
NIH, total	3,355	21,668	44,121	63,737	134,667	252,483
NIA	—	—	—	—	—	252
NIAID	297	9,223	19,616	23,273	63,276	145,850
NCI	2,400	9,790	16,627	26,874	45,050	61,674
NICHD	—	—	—	—	1,400	4,186
NIDR	25	25	81	97	1,712	2,733
NIEHS	—	—	—	—	—	250
NEI	33	45	60	200	96	250
NHLBI	5	1,202	4,871	9,323	15,468	17,091
NINCDS	31	684	1,510	1,168	1,435	2,413
DRR	564	699	1,356	2,802	6,157	7,784
OD	—	—	—	—	73	10,000
Other PHS, total	2,200	7,068	17,339	44,881	99,126	163,072
ADAMHA	—	516	2,791	2,578	12,155	47,553
CDC	2,050	6,202	13,750	33,298	62,133	89,229
FDA	150	350	798	9,005	9,527	14,390
HRSA	—	—	—	—	15,311	11,900

* See page 68 for AIDS Incidence data. † Includes reimbursements where applicable (funds appropriated to OD but transferred to Institutes to be awarded and administered).

Source: Division of Financial Management, NIH

Table 11
NIH OBLIGATIONS FOR BIOTECHNOLOGY RESEARCH BY NIH COMPONENT,
FISCAL YEARS 1985-1986*
(Thousands of Dollars)

NIH component	1985			1986		
	Total	Directly related	Broader science base	Total	Directly related	Broader science base
Total	\$1,847,145	\$638,916	\$1,208,229	\$1,950,194	\$677,863	\$1,272,331
NIA	13,912	8,235	5,677	14,775	8,174	6,601
NIAID	224,828	104,186	120,642	229,300	113,659	115,641
NIADDK	202,111	58,037	144,074	—	—	—
NIAMS	—	—	—	52,697	11,560	41,137
NCI	561,325	206,232	355,093	559,281	223,872	335,409
NICHD	123,673	39,789	83,884	122,837	29,819	93,018
NIDR	20,802	11,769	9,033	21,579	12,167	9,412
NIDDK	—	—	—	210,400	47,100	163,300
NIHES	13,438	1,344	12,094	13,714	1,371	12,343
NEI	35,225	16,515	18,710	33,780	17,641	16,139
NIGMS	282,169	120,886	161,283	308,775	132,773	176,002
NHLBI	145,215	36,991	108,224	150,226	38,266	111,960
NINCDS	142,413	17,551	124,862	149,758	17,675	132,083
NLM	—	—	—	100	100	—
DRR	82,034	17,381	64,653	82,972	23,686	59,286

*Biotechnology is defined as any technique that uses living organisms (or parts of organisms) to make or modify products, to improve plants or animals, or to develop microorganisms for specific uses. Directly related research is defined as that involving genetic manipulation, cloning of DNA, use of special techniques to isolate and detect DNA, creation of hybridomas and production of monoclonal antibodies, and computer methods used to analyze DNA and protein sequences. Broader science base refers to research underlying new biotechnology and includes investigations in genetics, molecular biology, cell biology, and immunology.

NOTE: The Pharmaceutical Manufacturers Association estimates that additional amounts of at least \$239 million for FY 1985 and \$267 million for FY 1986 were spent by other Federal agencies for support of biotechnology research, based on data collected in an annual survey.

Source: Division of Financial Management, NIH.

Table 12
NIH OBLIGATIONS FOR CLINICAL TRIALS BY NIH COMPONENT, FISCAL YEARS 1981-1986*
 (Thousands of Dollars)

NIH component	1981	1982	1983	1984	1985	1986
Total	\$196,677	\$188,149	\$213,806	\$235,388	\$293,443	\$315,763
NIA	—	—	—	1,000	5,395	4,943
NIAID	8,069	8,233	8,285	9,828	16,436	36,145
NIADDK	8,075	14,875	10,310	16,898	22,676	—
NIAMS	—	—	—	—	—	3,177
NCI	115,812	114,165	135,129	151,667	166,656	175,568
NICHD	6,290	6,945	10,429	10,975	18,379	16,395
NIDR	2,039	1,569	1,777	1,733	1,606	1,504
NIDDK	—	—	—	—	—	20,660
NEI	8,576	8,200	10,344	11,141	20,709	20,834
NHLBI	44,340	29,500	29,422	22,886	33,991	30,300
NINCDS	3,476	4,662	8,110	9,260	7,595	6,237

*Consistent data are not available for prior years.

Source: Division of Financial Management, NIH.

Table 13
NIH AWARDS BY FUNDING MECHANISM, FISCAL YEARS 1977-1986
Excluding Programs That Have Been Transferred Out
(Dollars in Millions)

Fiscal year	Total amount *	Institutes and Research Divisions											
		Research and development				Research training						Construction grants	
		Grants		Contracts		Total amount	Individual awards		Institutional grants				
		Number	Amount	Number	Amount		Number	Amount	Number	Amount	Number	Amount	
1977	\$2,015.1	15,564	\$1,435.7	2,237	\$430.1	\$131.6	1,975	\$27.3	1,210	\$104.3	10	\$16.0	
1978	2,252.1	16,772	1,638.0	2,099	451.6	148.5	2,070	29.7	1,330	118.8	14	12.0	
1979	2,590.4	19,204	1,951.7	1,896	475.0	149.3	2,208	31.8	1,265	117.5	10	12.5	
1980	2,788.6	20,061	2,161.1	1,622	432.4	182.8	1,973	38.9	1,515	143.9	10	10.8	
1981	2,883.7	20,418	2,331.4	1,340	366.9	181.7	1,752	35.5	1,369	146.2	6	2.0	
1982	2,930.1	19,893	2,407.7	1,180	358.7	156.3	1,726	31.2	1,294	125.1	18	6.2	
1983	3,246.4	20,819	2,702.3	1,110	370.3	171.1	1,756	34.4	1,340	136.7	3	1.5	
1984	3,657.6	21,535	3,087.0	1,150	394.7	173.2	1,759	34.4	1,360	138.8	3	1.0	
1985	4,248.1	22,958	3,591.3	1,335	417.7	224.0	1,985	46.4	1,356	177.5	33	12.1	
1986	4,426.6	23,445	3,739.1	1,298	462.6	217.1	1,823	42.8	1,334	174.4	29	5.0	

* Medical Library resource grants are included in totals only (\$2.8 million in 1986).

Table 14
NIH AWARDS BY NIH COMPONENT AND FUNDING MECHANISM, FISCAL YEAR 1986
(Dollars in Thousands)

NIH component	Total amount	Research and development										Research training			
		Grants								Contracts		Individual awards		Institutional grants	
		Total		Projects		Centers		Other							
		Number	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount
Total	\$4,426,607*†	23,445	\$3,739,147	19,201	\$2,928,820	580	\$482,454	3,664	\$327,873	1,298	\$462,564	1,823	\$42,754	1,334	\$174,395
NIA	115,777	646	105,853	521	90,088	14	9,925	111	5,840	16	4,778	31	774	44	4,372
NIAID	335,380	1,888	258,607	1,758	246,864	19	6,008	111	5,735	116	66,031	65	1,614	66	9,128
NIAMS	101,785	676	93,936	597	80,293	14	9,378	65	4,265	8	2,151	38	963	63	4,734
NCI	962,538	3,972	743,554	3,261	577,318	65	88,426	646	77,810	448	189,216	173	3,884	170	25,884
NICHD	256,546	1,622	222,437	1,435	188,447	48	26,555	139	7,434	102	20,054	115	2,703	106	11,352
NIDR	71,560	530	63,793	398	46,165	16	12,550	116	5,078	18	3,440	45	1,051	45	3,275
NIDDK	369,076	2,333	340,876	2,091	303,487	32	24,193	210	13,196	24	8,501	157	3,932	158	15,767
NIEHS	129,967	404	70,880	354	54,159	15	14,694	35	2,027	151	51,021	42	916	40	7,150
NEI	164,872 *	1,237	150,172	1,152	142,316	30	5,992	55	1,864	35	6,261	118	2,752	25	2,520
NIGMS	483,161	3,139	426,407	3,012	412,185	17	8,852	110	5,369	2	1,437	452	9,733	250	45,584
NHLBI	728,683 *	3,187	619,185	2,682	505,856	61	82,375	444	30,954	220	69,355	187	4,743	257	33,614
NINCDs	349,499	2,237	324,401	1,940	281,642	41	28,944	256	13,815	65	12,512	178	4,080	94	8,506
NLM	19,945†	52	6,000	—	—	—	—	52	6,000	54	10,058	—	—	5	1,095
DRR	310,134	1,432	303,266	—	—	208	164,560	1,224	138,706	5	5,653	3	83	9	1,132
FIC	4,833	—	—	—	—	—	—	—	—	1	75	155	4,758	—	—
NCNR	10,829	90	9,781	—	—	—	—	90	9,781	—	—	64	767	2	282
Other‡	12,023	—	—	—	—	—	—	—	—	33	12,023	—	—	—	—

* NEI and NHLBI construction grants (\$3,167 and \$1,787 thousand, respectively) are included in totals only. † Medical Library resource grants (\$2,793 thousand) are included in totals only. ‡ CC, DCRT, DRG, DRS, and OD.

Table 15
NIH AWARDS BY NIH COMPONENT AND FUNDING MECHANISM, FISCAL YEARS 1977-1986
 (Millions of Dollars)

Fiscal year	Total *	NIA			NIAID			NIAMS			NCI			
		R&D		Research training	R&D		Research training	R&D		Research training	R&D		Research training	Constr. grants
		Grants	Contracts		Grants	Contracts		Grants	Contracts		Grants	Contracts		
1977	\$2,015.1	\$ 17.5	\$1.6	\$2.2	\$ 82.1	\$15.9	\$ 6.6	\$30.8	\$1.6	\$2.2	\$357.3	\$260.9	\$19.8	\$16.0
1978	2,252.1	21.8	1.8	2.4	94.9	17.8	8.1	36.8	2.0	2.7	395.0	263.9	20.0	12.0
1979	2,590.4	37.0	2.6	2.4	122.0	16.6	7.9	45.1	2.8	2.5	439.5	265.1	20.0	12.5
1980	2,788.6	42.4	4.3	2.8	140.6	17.4	9.5	51.2	1.0	4.0	485.8	246.5	27.8	10.8
1981	2,883.7	46.1	4.9	2.6	158.1	12.2	8.7	58.2	2.1	3.7	516.6	209.4	26.3	2.0
1982	2,930.1	51.9	5.0	2.3	160.8	14.2	7.3	58.4	1.9	3.4	526.3	168.7	23.2	1.2
1983	3,246.4	60.4	5.0	2.6	189.0	21.4	8.4	66.7	1.1	3.9	562.8	169.4	24.7	1.5
1984	3,657.6	77.4	6.9	2.6	216.2	28.2	8.4	76.9	1.2	4.1	635.0	177.7	24.6	1.0
1985	4,248.1	97.1	6.3	4.2	256.4	32.6	11.4	92.6	1.7	6.1	703.6	184.3	31.0	5.5
1986	4,426.6§	105.9	4.8	5.1	258.6	66.0	10.7	93.9	2.2	5.7	743.6	189.2	29.8	—

* Construction grants awarded by components other than NCI are included in totals only. †CC, DCRT, DRS, and OD. ‡Medical Library resource grants.
 §Includes NEI and NHLBI construction grants totaling \$3.2 and \$1.8 million, respectively.

(Continued)

Table 15 (Cont.)
NIH AWARDS BY NIH COMPONENT AND FUNDING MECHANISM, FISCAL YEARS 1977-1986
(Millions of Dollars)

Fiscal year	NICHD			NIDR			NIDDK			NIEHS		
	R&D		Research training	R&D		Research training	R&D		Research training	R&D		Research training
	Grants	Contracts		Grants	Contracts		Grants	Contracts		Grants	Contracts	
1977	\$ 91.7	\$20.1	\$ 9.4	\$30.0	\$4.3	\$3.3	\$127.4	\$ 9.9	\$ 7.6	\$27.3	\$ 3.9	\$4.2
1978	106.7	20.0	10.2	34.7	3.9	3.3	150.3	11.7	12.2	32.8	3.7	4.5
1979	134.2	21.0	9.8	37.9	3.6	3.3	177.7	12.6	12.3	39.4	7.5	4.5
1980	138.5	22.9	10.8	38.8	3.2	3.9	200.9	10.4	17.7	40.8	8.4	6.5
1981	155.0	16.7	9.1	41.5	2.4	4.4	223.2	5.2	16.1	44.1	7.4	6.5
1982	158.6	14.7	9.0	43.2	1.4	3.4	220.9	5.6	14.5	47.1	46.5	6.3
1983	178.6	17.6	10.2	48.4	1.8	3.9	252.0	5.7	15.3	52.9	40.7	6.8
1984	196.6	16.7	10.1	55.8	3.1	3.8	286.4	5.9	15.0	61.0	42.3	6.8
1985	221.5	20.8	14.0	64.0	4.0	4.8	332.3	7.2	20.6	69.3	48.0	8.5
1986	222.4	20.1	14.1	63.8	3.4	4.3	340.9	8.5	19.7	70.9	51.0	8.1

See footnotes at beginning of table.

(Continued)

Table 15 (Cont.)
NIH AWARDS BY NIH COMPONENT AND FUNDING MECHANISM, FISCAL YEARS 1977-1986
(Millions of Dollars)

Fiscal year	NEI			NIGMS			NHLBI			NINCDS		
	R&D		Research training	R&D		Research training	R&D		Research training	R&D		Research training
	Grants	Contracts		Grants	Contracts		Grants	Contracts		Grants	Contracts	
1977	\$ 45.8	\$3.5	\$4.6	\$152.1	\$0.5	\$43.8	\$240.5	\$74.8	\$17.0	\$ 99.1	\$13.2	\$ 6.3
1978	64.6	4.7	4.6	173.8	0.6	46.8	274.3	82.7	21.2	111.1	17.9	7.3
1979	81.8	5.4	4.6	220.5	0.5	46.9	324.6	91.3	21.2	139.0	21.5	7.6
1980	85.3	5.0	4.5	253.3	0.9	47.9	345.2	75.5	31.8	167.7	15.1	8.9
1981	93.0	3.8	3.9	268.2	0.8	53.4	371.2	67.8	31.4	178.4	12.7	9.2
1982	98.6	4.7	3.4	275.9	1.6	46.3	392.7	57.6	23.5	188.3	12.8	8.1
1983	111.2	5.3	3.9	306.6	1.5	49.1	446.1	58.8	26.4	211.2	14.8	9.7
1984	122.1	6.0	3.9	352.0	1.5	49.1	516.6	61.0	28.4	244.2	16.8	9.7
1985	140.9	7.0	5.2	406.9	1.7	57.9	595.7	64.5	39.7	299.0	14.4	13.2
1986	150.2	6.3	5.3	426.4	1.4	55.3	619.2	69.4	38.4	324.4	12.5	12.6

See footnotes at beginning of table.

(Continued)

Table 15 (Cont.)
NIH AWARDS BY NIH COMPONENT AND FUNDING MECHANISM, FISCAL YEARS 1977-1986
 (Millions of Dollars)

Fiscal year	NLM				DRR			FIC		NCNR			Other [†]
	R&D		Research training	Other [‡]	R&D		Research training	R&D contracts	Research training	R&D		Research training	R&D contracts
	Grants	Contracts			Grants	Contracts				Grants	Contracts		
1977	\$2.0	\$10.4	\$1.2	\$1.8	\$132.1	\$4.4	\$0.5	\$0.3	\$2.9	\$ —	\$ —	\$ —	\$ 4.6
1978	2.4	8.6	1.4	2.0	138.6	5.2	0.5	0.1	3.4	—	—	—	7.1
1979	3.7	9.9	1.4	2.0	149.3	5.4	0.5	—	4.4	—	—	—	9.4
1980	4.6	9.4	1.6	1.6	165.9	4.6	0.7	—	4.3	—	—	—	7.5
1981	4.9	7.3	1.3	1.6	172.8	4.4	0.6	—	4.6	—	—	—	10.0
1982	4.1	9.0	0.9	1.1	180.8	4.7	0.7	0.1	4.1	—	—	—	10.3
1983	4.5	9.4	0.7	1.2	211.9	3.6	0.7	0.2	4.9	—	—	—	14.1
1984	3.2	10.5	0.8	1.7	243.5	3.6	0.7	0.1	5.2	—	—	—	13.4
1985	5.7	9.0	1.1	3.0	306.3	5.6	1.3	—	5.2	—	—	—	10.8
1986	6.0	10.1	1.1	2.8	303.3	5.7	1.2	0.1	4.8	9.8	—	1.0	12.0

See footnotes at beginning of table.

Table 16
NIH AWARDS BY KIND OF PERFORMING INSTITUTION AND FUNDING MECHANISM, FISCAL YEAR 1986
(Dollars in Thousands)

Performing institution	Total*			Institutes and Research Divisions									
				Research and development									
				Grants									
				Total			Projects		Centers		Other		
	No. of inst.†	Amount	Percent	No. of inst.†	Amount	Percent	Number	Amount	Number	Amount	Number	Amount	
Total	1,608	\$4,426,607	100.0%	1,303	\$3,739,147	100.0%	19,201	\$2,928,820	580	\$482,454	3,664	\$327,873	
Domestic	1,479	4,400,434	99.4	1,214	3,722,790	99.6	19,002	2,913,484	580	482,454	3,646	326,853	
Nonprofit	935	4,162,995	94.0	852	3,672,049	98.2	18,547	2,866,156	579	481,747	3,612	324,145	
Higher education‡	458	3,326,954	75.2	449	2,974,883	79.6	15,608	2,332,702	475	385,225	2,882	256,956	
Medical schools‡§	124	2,295,226	51.9	124	2,051,182	54.9	10,149	1,599,685	360	308,416	1,606	143,081	
Government	70	52,669	1.2	47	41,873	1.1	215	28,496	7	5,822	62	7,555	
Federal	19	6,305	0.1	11	832		11	678	—	—	5	154	
Research institutes	8	3,806	0.1	2	62		2	62	—	—	—	—	
Hospitals	9	640		8	612		8	458	—	—	5	154	
Other	2	1,858		1	158		1	158	—	—	—	—	
State and local	51	46,365	1.0	36	41,041	1.1	204	27,818	7	5,822	57	7,401	
Research institutes	4	1,925		3	1,754		15	1,655	—	—	4	99	
Hospitals	23	33,362	0.8	15	30,546	0.8	130	20,133	6	5,584	32	4,828	
Other	24	11,078	0.3	18	8,741	0.2	59	6,029	1	238	21	2,473	
Other nonprofit	407	783,371	17.7	356	655,293	17.5	2,724	504,958	97	90,700	668	59,634	
Research institutes	142	408,609	9.2	128	325,141	8.7	1,295	255,030	50	50,644	204	19,467	
Hospitals**	159	298,245	6.7	145	270,956	7.2	1,243	213,256	33	31,109	343	26,590	
Other	106	76,518	1.7	83	59,196	1.6	186	36,672	14	8,947	121	13,577	
For-profit††	544	237,439	5.4	362	50,741	1.4	455	47,328	1	706	34	2,707	
Foreign‡‡	129	26,173	0.6	89	16,357	0.4	199	15,336	—	—	18	1,021	

*Medical Library resource grants are included in totals only. †A multicampus university (including its components) is counted as one; separately organized components of an institution are counted individually. ‡Includes hospitals owned by these institutions. §Includes basic health-science departments administered by schools of medicine or medicine/dentistry.

(Footnotes continued on next page.)

Table 16 (Cont.)
NIH AWARDS BY KIND OF PERFORMING INSTITUTION AND FUNDING MECHANISM, FISCAL YEAR 1986
(Dollars in Thousands)

Performing institution	Institutes and Research Divisions										
	Research and develop. (cont.)			Research training						Construction grants	
	Contracts			Total		Individual awards		Institutional grants			
	No. of inst. [†]	Number	Amount	No. of inst. [†]	Amount	Number	Amount	Number	Amount	No. of inst. [†]	Amount
Total	502	1,298	\$462,564	323	\$217,149	1,823	\$42,754	1,334	\$174,395	26	\$ 4,954
Domestic	455	1,236	453,602	295	216,294	1,789	41,936	1,333	174,359	26	4,954
Nonprofit	238	788	266,904	295	216,294	1,789	41,936	1,333	174,359	26	4,954
Higher education [‡]	109	478	156,299	205	189,250	1,438	33,154	1,183	156,095	21	4,233
Medical schools ^{‡§}	85	346	108,832	103	129,690	777	19,017	837	110,673	18	3,787
Government	12	16	5,900	11	4,769	153	3,848	12	922	—	—
Federal	1	1	1,700	7	3,773	150	3,773	—	—	—	—
Research institutes	—	—	—	6	3,744	149	3,744	—	—	—	—
Hospitals	—	—	—	1	29	1	29	—	—	—	—
Other	1	1	1,700	—	—	—	—	—	—	—	—
State and local	11	15	4,200	4	997	3	75	12	922	—	—
Research institutes	1	1	142	1	29	1	29	—	—	—	—
Hospitals	3	6	1,760	2	941	2	46	11	895	—	—
Other	7	8	2,298	1	27	—	—	1	27	—	—
Other nonprofit	117	294	104,705	79	22,275	198	4,934	138	17,342	5	721
Research institutes	54	186	75,528	38	7,940	107	2,551	42	5,388	—	—
Hospitals ^{**}	37	60	14,994	27	11,735	86	2,265	72	9,470	4	397
Other	26	48	14,182	14	2,601	5	118	24	2,484	1	325
For-profit ^{††}	217	448	186,698	—	—	—	—	—	—	—	—
Foreign ^{‡‡}	47	62	8,962	28	854	34	819	1	36	—	—

^{††} Less than 0.05 percent. ^{**} Hospitals not owned by institutions classified as Higher Education, Government, or Research Institutes. ^{‡‡} Includes \$78.0 million to research institutes. ^{‡‡} Awards to U.S. citizens as well as to foreign nationals.

Table 17
NIH AWARDS BY KIND OF PERFORMING INSTITUTION, SELECTED FISCAL YEARS 1977-1986
(Dollars in Thousands)

Performing institution	1977		1979		1981		1983		1985		1986	
	Amount	Percent	Amount	Percent	Amount	Percent	Amount	Percent	Amount	Percent	Amount	Percent
Total	\$2,015,157	100.0%	\$2,590,417	100.0%	\$2,883,673	100.0%	\$3,246,415	100.0%	\$4,248,136	100.0%	\$4,426,607	100.0%
Domestic	1,993,419	98.9	2,565,288	99.0	2,859,733	99.2	3,225,477	99.4	4,223,876	99.4	4,400,434	99.4
Nonprofit	1,864,490	92.5	2,416,010	93.3	2,714,843	94.1	3,055,923	94.1	4,006,153	94.3	4,162,995	94.0
Higher education *	1,445,611	71.7	1,916,491	74.0	2,162,685	75.0	2,439,288	75.1	3,211,026	75.6	3,326,954	75.2
Medical schools * †	995,222	49.4	1,338,926	51.7	1,506,542	52.2	1,688,775	52.0	2,223,001	52.3	2,295,226	51.9
Government	42,706	2.1	46,051	1.8	50,687	1.8	44,307	1.4	54,077	1.3	52,669	1.2
Federal	3,029	0.2	4,616	0.2	3,025	0.1	2,960	0.1	4,277	0.1	6,305	0.1
Research institutes	1,422	0.1	3,175	0.1	2,197	0.1	2,182	0.1	3,257	0.1	3,806	0.1
Hospitals	1,012	0.1	1,284	‡	779	‡	694	‡	851	‡	640	‡
Other	595	‡	156	‡	48	‡	84	‡	169	‡	1,858	‡
State and local	39,678	2.0	41,435	1.6	47,663	1.7	41,347	1.3	49,800	1.2	46,365	1.0
Research institutes	222	‡	552	‡	1,106	‡	1,611	‡	1,969	‡	1,925	‡
Hospitals	23,639	1.2	26,868	1.0	30,032	1.0	29,245	0.9	36,945	0.9	33,362	0.8
Other	15,816	0.8	14,015	0.5	16,525	0.6	10,491	0.3	10,886	0.3	11,078	0.3
Other nonprofit	376,172	18.7	453,468	17.5	501,470	17.4	572,328	17.6	741,050	17.4	783,371	17.7
Research institutes	178,078	8.8	231,760	8.9	253,004	8.8	304,610	9.4	386,553	9.1	408,609	9.2
Hospitals §	145,456	7.2	166,847	6.4	189,068	6.6	206,909	6.4	286,646	6.7	298,245	6.7
Other	52,639	2.6	54,862	2.1	59,398	2.1	60,808	1.9	67,851	1.6	76,518	1.7
For-profit	128,929	6.4	149,278	5.8	144,890	5.0	169,554	5.2	217,723	5.1	237,439	5.4
Research institutes	76,782	3.8	89,503	3.5	85,277	3.0	70,991	2.2	80,172	1.9	78,032	1.8
Other	52,146	2.6	59,775	2.3	59,613	2.1	98,563	3.0	137,551	3.2	159,407	3.6
Foreign	21,739	1.1	25,129	1.0	23,940	0.8	20,938	0.6	24,260	0.6	26,173	0.6

*Includes all hospitals owned by these institutions. †Includes basic health-science departments administered by schools of medicine or medicine/dentistry. ‡Less than 0.05 percent. §Hospitals not owned by institutions classified as Higher Education, Government, or Research Institutes. ||Awards to U.S. citizens as well as to foreign nationals.

Table 18
NIH AWARDS BY NIH COMPONENT AND PERFORMING INSTITUTION, FISCAL YEAR 1986
(Thousands of Dollars)

NIH component	Total	Domestic nonprofit institutions								Domestic profit institutions			Foreign institutions\$
		Total	Higher education *				Other nonprofit			Total	Research institutes	Other	
			Total	Medical schools* †	Other health professional schools	Other	Research institutes	Hos-pitals‡	Other				
Total	\$4,426,607	\$4,162,995	\$3,326,954	\$2,295,226	\$285,309	\$746,419	\$414,340	\$332,247	\$89,454	\$237,439	\$78,032	\$159,407	\$26,173
NIA	115,777	112,032	91,780	62,805	6,695	22,279	8,867	10,080	1,304	2,870	704	2,166	875
NIAID	335,380	323,532	257,160	184,175	23,074	49,912	29,235	32,501	4,636	9,243	3,091	6,152	2,605
NIAMS	101,785	100,203	79,966	68,986	3,602	7,377	5,813	12,978	1,447	1,404	—	1,404	177
NCI	962,538	825,594	541,619	398,583	53,219	89,817	160,185	89,434	34,355	128,033	41,323	86,710	8,911
NICHD	256,546	245,312	198,491	125,081	14,118	59,292	25,392	18,800	2,628	9,874	5,596	4,278	1,360
NIDR	71,560	68,163	60,997	14,178	42,581	4,238	5,442	1,221	503	2,933	2,095	839	464
NIDDK	369,076	359,811	298,609	250,807	11,618	36,184	22,627	33,550	5,025	7,026	1,046	5,980	2,239
NIEHS	129,967	108,251	74,758	37,983	16,945	19,831	31,376	1,408	709	20,458	12,663	7,795	1,257
NEI	164,872	160,262	133,456	99,079	9,966	24,411	13,908	11,744	1,154	2,733	—	2,733	1,877
NIGMS	483,161	474,231	430,667	188,831	13,333	228,503	28,878	10,749	3,937	7,423	1,621	5,801	1,507
NHLBI	728,683	707,996	588,050	495,822	46,965	45,262	40,759	65,758	13,429	17,494	7,613	9,881	3,194
NINCDS	349,499	340,562	291,231	222,485	10,946	57,800	19,636	21,808	7,886	7,231	1,725	5,506	1,706
NLM	19,945	13,793	11,422	6,832	423	4,167	312	1,067	991	6,152	131	6,021	—
DRR	310,134	302,427	254,269	136,919	21,621	95,729	20,253	20,495	7,409	7,707	321	7,385	—
FIC	4,833	4,758	3,093	2,166	264	664	1,376	254	35	75	—	75	—
NCNR	10,829	10,829	10,429	331	9,938	160	—	400	—	—	—	—	—
OtherII	12,023	5,239	956	163	—	793	280	—	4,003	6,783	102	6,682	—

*Includes all hospitals administered by these institutions. †Includes basic health-science departments administered by schools of medicine or medicine/dentistry. ‡Hospitals not administered by institutions classified as higher education or research institutes. §Awards to U.S. citizens as well as to foreign nationals. ||CC, DCRT, DRG, DRS, and OD.

Table 19
NIH AWARDS TO U.S. INSTITUTIONS OF HIGHER EDUCATION BY COMPONENT AND FUNDING MECHANISM, FISCAL YEAR 1986
(Dollars in Thousands)

Major component	Total*		Institutes and Research Divisions							
			Research and development							
			Grants							
			Total		Projects		Centers		Other	
	Amount	Percent	Number	Amount	Number	Amount	Number	Amount	Number	Amount
Total — all institutions†	\$4,426,607	100.0%	23,445	\$3,739,147	19,201	\$2,928,820	580	\$482,454	3,664	\$327,873
Total — U.S. higher education	3,326,954	75.2	18,965	2,974,883	15,608	2,332,702	475	385,225	2,882	256,956
Health professional school components	2,580,535	58.3	13,836	2,287,304	11,384	1,779,487	393	333,641	2,059	174,176
Medical schools‡	2,295,226	51.9	12,115	2,051,182	10,149	1,599,685	360	308,416	1,606	143,081
Public health	91,833	2.1	274	61,749	225	54,952	3	3,005	46	3,791
Dentistry	54,179	1.2	435	50,315	277	33,365	12	9,577	146	7,372
Pharmacy	39,216	0.9	293	34,604	224	25,933	8	4,589	61	4,082
Veterinary medicine	36,994	0.8	272	32,366	219	25,975	5	3,772	48	2,619
Hospitals§	29,534	0.7	154	26,319	126	19,528	3	3,907	25	2,885
Other	33,554	0.8	293	30,769	164	20,050	2	374	127	10,345
Schools of A&S and graduate schools	559,853	12.6	4,092	516,305	3,395	427,969	43	23,043	654	65,292
Other components	185,988	4.2	1,037	171,275	829	125,246	39	28,542	169	17,487
Organized research units	79,966	1.8	317	74,001	257	55,261	23	13,881	37	4,858
Engineering	32,734	0.7	216	30,171	184	25,432	4	1,886	28	2,852
Agriculture	34,486	0.8	312	31,733	282	29,158	5	769	25	1,807
University-wide	5,421	0.1	51	4,807	—	—	—	—	51	4,807
Other	33,381	0.8	141	30,563	106	15,394	7	12,006	28	3,163

*Medical Library resource grants are included in totals only. †Includes foreign. ‡Includes hospitals and basic health-science departments administered by schools of medicine or medicine/dentistry. §Hospitals administered by institutions of higher education (e.g., Univ. of Texas System's M.D. Anderson Hospital and Tumor Institute, \$18.6 million). Excludes hospitals administered by medical schools.

(Continued)

Table 19 (Cont.)
NIH AWARDS TO U.S. INSTITUTIONS OF HIGHER EDUCATION BY COMPONENT AND FUNDING MECHANISM, FISCAL YEAR 1986
(Dollars in Thousands)

Major component	Institutes and Research Divisions								
	Research and dev. (cont.)		Research training					Construction grants	
	Contracts		Total amount	Individual awards		Institutional grants			
	Number	Amount		Number	Amount	Number	Amount	Number	Amount
Total — all institutions [†]	1,298	\$462,564	\$217,149	1,823	\$42,754	1,334	\$174,395	29	\$4,954
Total — U.S. higher education	478	156,299	189,250	1,438	33,154	1,183	156,095	24	4,233
Health professional components	427	141,485	145,583	903	21,495	961	124,088	23	4,108
Medical schools [‡]	346	108,832	129,690	777	19,017	837	110,673	21	3,787
Public health	36	23,391	6,372	19	456	36	5,916	—	—
Dentistry	5	471	3,393	14	379	40	3,014	—	—
Pharmacy	18	3,177	1,435	10	211	10	1,224	—	—
Veterinary medicine	11	2,505	2,122	22	556	16	1,567	—	—
Hospitals [§]	10	2,873	342	6	139	3	204	—	—
Other	1	236	2,228	55	738	19	1,491	2	321
Schools of A&S and graduate schools	23	6,850	36,573	449	9,769	182	26,804	1	125
Other components	27	7,386	7,093	86	1,890	40	5,204	—	—
Organized research units	9	3,106	2,859	35	799	15	2,060	—	—
Engineering	5	1,348	1,215	14	307	10	908	—	—
Agriculture	6	1,182	1,570	19	437	7	1,133	—	—
University-wide	1	436	—	—	—	—	—	—	—
Other	6	1,314	1,449	18	347	8	1,103	—	—

See footnotes at beginning of table.

Table 20
NIH AWARDS BY STATE AND FUNDING MECHANISM, FISCAL YEAR 1986
(Thousands of Dollars)

State	Total*	Institutes and Research Divisions								
		Research and development					Research training			Construction grants
		Grants				Contracts	Total	Indiv. awards	Inst'l grants	
		Total	Projects	Centers	Other					
Total	\$4,426,607	\$3,739,147	\$2,928,820	\$482,454	\$327,873	\$462,564	\$217,149	\$42,754	\$174,395	\$ 4,954
U.S. total	4,400,434	3,722,790	2,913,484	482,454	326,853	453,602	216,294	41,936	174,359	4,954
Alabama	64,213	50,046	35,016	7,958	7,071	10,591	3,372	335	3,037	203
Alaska	130	70	—	—	70	—	60	—	60	—
Arizona	30,313	28,453	21,825	3,509	3,119	908	911	269	642	—
Arkansas	3,583	3,266	2,378	—	888	257	60	—	60	—
California	649,508	559,179	450,590	65,857	42,732	54,188	35,252	8,151	27,102	641
Colorado	59,370	55,006	45,749	5,162	4,094	884	3,480	498	2,981	—
Connecticut	121,763	107,848	91,940	9,032	6,876	5,045	8,565	1,381	7,184	306
Delaware	2,027	2,027	1,698	—	329	—	—	—	—	—
Dist. of Col.	45,561	29,885	19,252	4,737	5,895	14,485	728	242	487	—
Florida	60,236	54,707	43,760	5,504	5,444	2,895	2,512	507	2,004	123
Georgia	51,855	48,141	31,841	9,723	6,577	2,120	1,545	336	1,209	49
Hawaii	9,627	6,422	4,216	825	1,382	2,985	212	92	119	—
Idaho	860	802	725	—	77	—	26	26	—	—
Illinois	152,870	132,658	107,879	13,350	11,428	11,438	8,737	1,199	7,538	38
Indiana	42,551	38,722	31,457	3,771	3,494	2,464	1,361	301	1,060	—
Iowa	43,560	36,666	26,342	6,225	4,099	3,643	2,810	582	2,228	441
Kansas	15,673	14,045	11,447	649	1,949	793	835	38	797	—
Kentucky	14,547	12,930	10,739	901	1,290	1,386	230	38	192	—
Louisiana	31,586	28,000	16,816	7,656	3,529	2,248	1,338	200	1,138	—
Maine	9,495	8,844	6,565	1,591	689	330	282	—	282	—
Maryland	275,696	130,356	107,950	13,262	9,144	131,427	13,213	4,868	8,345	325
Massachusetts	473,137	412,165	331,771	52,379	28,014	32,603	27,990	6,707	21,283	265
Michigan	105,071	91,116	73,268	8,419	9,429	7,838	5,976	699	5,277	141
Minnesota	106,055	92,383	75,371	10,048	6,964	8,968	4,674	708	3,966	30
Mississippi	8,156	6,609	4,187	181	2,241	1,030	516	25	491	—

* Medical Library resource grants are included in totals only. † Awards to U.S. citizens as well as to foreign nationals.

(Continued)

Table 20 (Cont.)
NIH AWARDS BY STATE AND FUNDING MECHANISM, FISCAL YEAR 1986
(Thousands of Dollars)

State	Total *	Institutes and Research Divisions								Construction grants
		Research and development					Research training			
		Grants				Contracts	Total	Indiv. awards	Inst'l grants	
		Total	Projects	Centers	Other					
Missouri	\$ 99,417	\$ 83,507	\$ 62,624	\$ 13,896	\$ 6,987	\$ 8,491	\$ 7,419	\$ 701	\$ 6,718	\$ —
Montana	1,908	1,733	1,343	34	355	50	—	—	—	125
Nebraska	10,086	9,093	7,219	1,014	861	780	100	45	55	—
Nevada	2,318	2,276	1,811	—	465	—	42	—	42	—
New Hampshire	16,219	14,565	12,395	939	1,231	1,080	573	109	464	—
New Jersey	43,453	34,682	29,977	1,144	3,561	6,822	1,756	623	1,133	—
New Mexico	15,851	14,921	8,554	3,166	3,202	670	259	99	161	—
New York	562,625	513,535	407,939	68,687	36,909	24,135	24,376	4,037	20,339	254
North Carolina	152,825	122,484	88,926	22,904	10,654	20,493	9,727	1,167	8,560	108
North Dakota	510	446	239	—	207	—	—	—	—	—
Ohio	121,097	98,523	73,529	15,793	9,201	18,025	4,544	591	3,953	—
Oklahoma	12,622	12,111	11,054	—	1,057	379	79	25	54	—
Oregon	39,137	36,508	26,559	7,235	2,714	944	1,435	307	1,128	250
Pennsylvania	249,892	228,315	177,965	29,945	20,405	9,797	11,435	1,657	9,777	345
Rhode Island	21,352	19,953	15,168	2,456	2,328	898	363	79	283	—
South Carolina	16,813	16,443	12,795	829	2,819	—	324	109	216	—
South Dakota	610	610	340	—	270	—	—	—	—	—
Tennessee	74,853	67,533	45,063	16,789	5,680	3,162	4,098	315	3,783	—
Texas	214,556	191,799	151,440	18,781	21,578	14,556	7,466	1,690	5,776	661
Utah	39,565	32,042	28,239	1,852	1,951	6,247	958	197	761	—
Vermont	18,935	16,930	11,200	4,418	1,312	1,522	483	57	426	—
Virginia	74,053	53,201	41,740	4,996	6,465	17,028	3,824	555	3,270	—
Washington	133,089	112,286	82,972	21,179	8,135	13,119	7,621	1,484	6,137	—
West Virginia	3,907	3,082	2,681	—	401	566	258	35	223	—
Wisconsin	87,737	77,337	57,108	13,708	6,521	5,877	3,873	741	3,133	650
Wyoming	776	776	470	—	306	—	—	—	—	—
Guam	10	—	—	—	—	10	—	—	—	—
Puerto Rico	8,594	7,622	1,349	1,948	4,325	424	548	64	484	—
Virgin Islands	181	130	—	—	130	—	47	47	—	—
Foreign†	26,173	16,357	15,336	—	1,021	8,962	854	819	36	—

See footnotes at beginning of table.

Table 21
NIH AWARDS TO U.S. MEDICAL SCHOOLS BY FUNDING MECHANISM, FISCAL YEARS 1977-1986*
(Dollars in Thousands)

Fiscal year	Total amount†	Institutes and Research Divisions											
		Research and development				Research training						Construction grants	
		Grants		Contracts		Total amount	Individual awards		Institutional grants				
		Number	Amount	Number	Amount		Number	Amount	Number	Amount	Number	Amount	
1977	\$ 998,071	7,980	\$ 779,175	801	\$130,287	\$ 78,435	936	\$13,076	769	\$ 65,359	6	\$ 9,624	
1978	1,151,895	8,772	914,555	728	136,757	91,504	1,014	14,650	869	76,853	8	8,387	
1979	1,338,926	10,103	1,095,578	681	146,061	90,829	1,055	15,488	827	75,341	5	5,950	
1980	1,429,111	10,584	1,201,719	504	111,275	111,816	960	18,996	995	92,820	3	3,860	
1981	1,506,542	10,787	1,306,113	404	88,331	110,246	825	16,960	881	93,286	5	1,653	
1982	1,520,648	10,577	1,347,409	355	75,086	93,513	831	15,113	832	78,401	14	4,599	
1983	1,688,775	10,922	1,509,031	304	76,922	101,642	809	15,997	855	85,645	2	936	
1984	1,899,640	11,267	1,717,930	326	76,247	103,865	836	16,481	875	87,384	2	700	
1985	2,223,147	11,960	1,985,438	326	90,604	134,234	873	21,132	855	113,102	26	10,701	
1986	2,295,226	12,115	2,051,182	346	108,832	129,690	777	19,017	837	110,673	21	3,787	

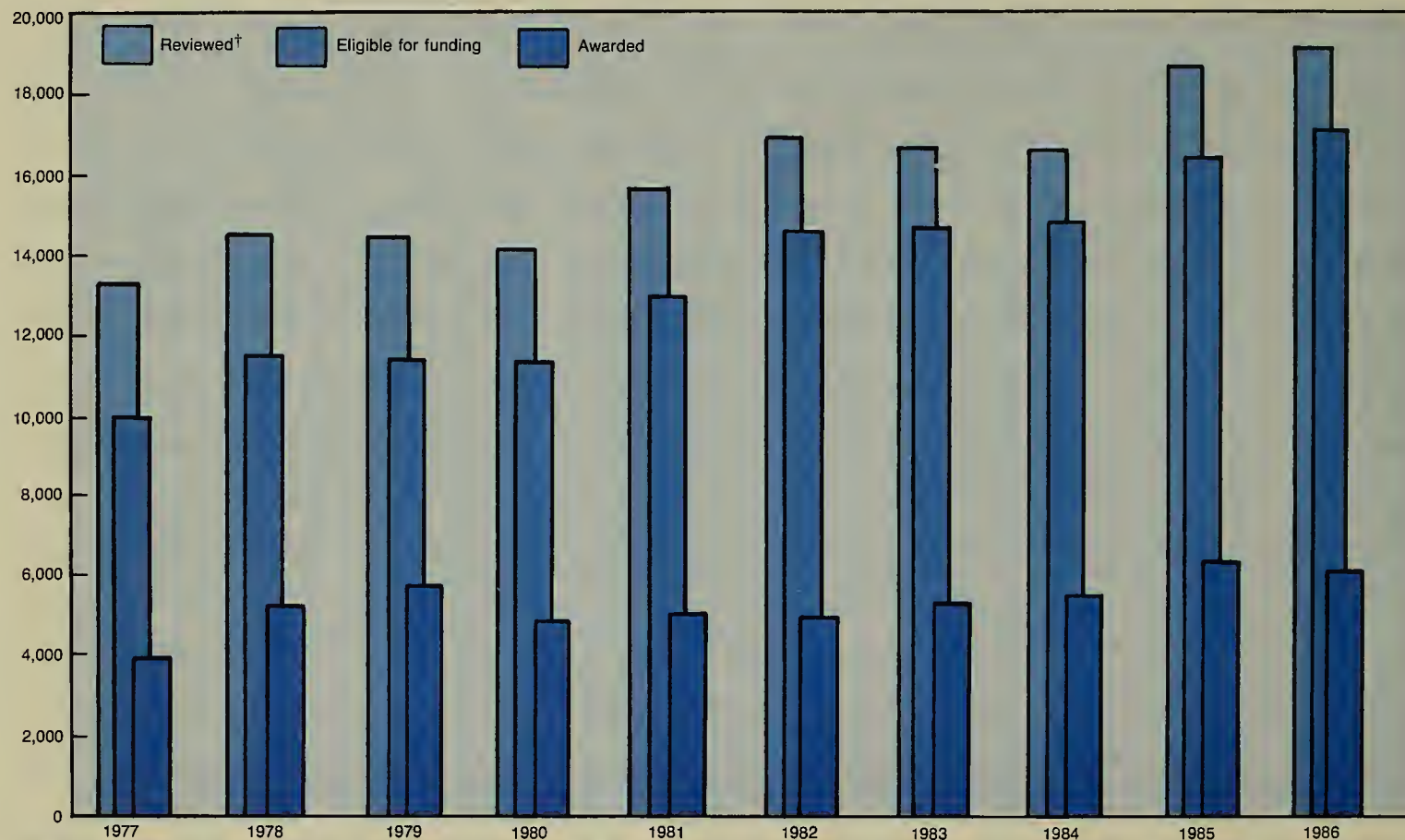
*Includes basic health-science departments administered by schools of medicine or medicine/dentistry. †Medical Library resource grants are shown in totals only.

Table 22
NUMBER OF AWARDS AND AWARD RATES FOR NIH COMPETING RESEARCH PROJECTS BY NIH COMPONENT,
SELECTED FISCAL YEARS 1977-1986*

NIH component	Number awarded						Award rates†					
	1977	1979	1981	1983	1985	1986	1977	1979	1981	1983	1985	1986
Total	3,840	5,944	5,109	5,389	6,247	6,149	38.6%	51.6%	39.2%	37.2%	37.3%	35.8%
NIA	132	214	118	152	209	205	59.5	48.5	23.4	32.1	34.3	31.1
NIAID	268	537	433	522	549	540	27.6	48.6	34.9	37.1	36.5	34.2
NIAMS	85	146	148	176	194	199	33.2	50.7	40.3	39.1	33.6	33.1
NCI	658	901	814	886	1,017	950	37.8	43.9	35.8	33.9	36.4	34.3
NICHD	290	461	453	452	469	490	33.2	44.8	39.2	34.7	28.2	27.1
NIDR	107	131	143	133	131	149	43.7	45.5	45.1	52.8	41.2	39.7
NIDDK	556	623	611	601	592	637	46.9	49.8	41.1	38.7	35.6	35.4
NIEHS	116	91	113	98	108	107	55.2	41.0	47.5	46.7	32.3	29.4
NEI	218	301	304	247	367	362	55.3	65.2	52.4	44.7	49.2	51.0
NIGMS	446	1,020	711	835	987	981	32.9	58.2	40.1	40.9	44.8	42.6
NHLBI	729	942	774	748	902	886	45.5	55.4	40.7	35.4	36.8	35.7
NINCDS	235	577	487	539	722	643	26.6	62.6	40.6	35.5	37.8	37.8

*Excludes NLM, DRR, and cancer control research projects. †Number awarded as a percent of number eligible (recommended for approval + carryover).

Figure 4
NUMBER OF APPLICATIONS FOR NIH COMPETING RESEARCH PROJECTS
REVIEWED, ELIGIBLE FOR FUNDING, AND AWARDED,
FISCAL YEARS 1977-1986*



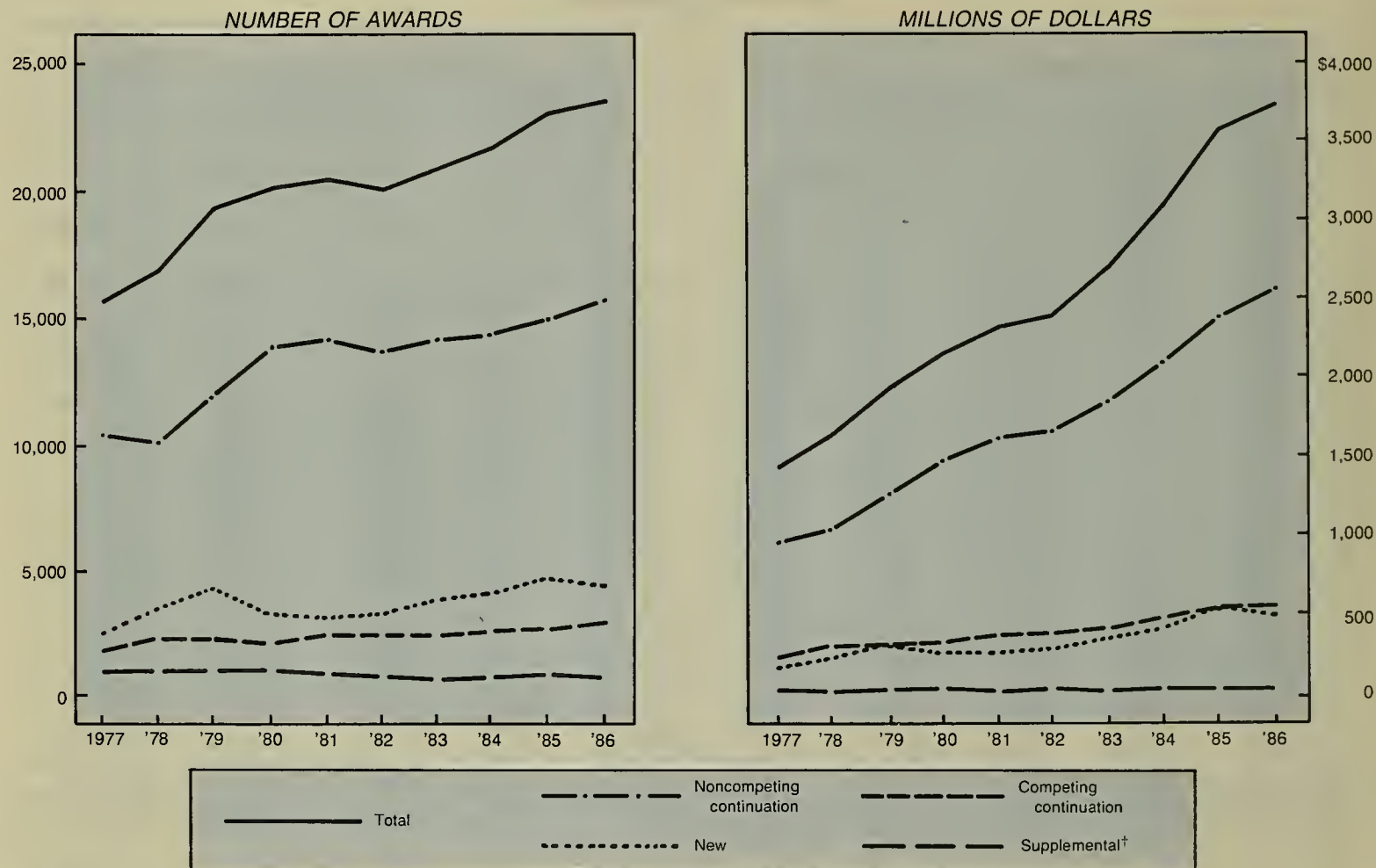
* Excludes NLM, DRR, and cancer control research projects. Represents grants coded R01, R22, R23, R29, R35, R37, R43, R44, P01 and U01. Original applications and their amendments for the same fiscal year are counted as one. †Reviewed in year shown.

Table 23
APPLICATIONS FOR NIH COMPETING RESEARCH PROJECTS REVIEWED, RECOMMENDED FOR
APPROVAL BY COUNCILS, ELIGIBLE FOR FUNDING, AND AWARDED, FISCAL YEARS 1977-1986*
(Dollars in Thousands)

Fiscal year	Reviewed		Council recommended for approval†		Total eligible for funding		Awarded	
	Number	Amount	Number	Amount	Number‡	Amount	Number	Amount
1977	13,304	\$1,267,582	9,851	\$ 681,584	9,932	\$ 686,759	3,840	\$306,897
1978	14,502	1,403,379	11,251	798,921	11,489	818,964	5,200	420,850
1979	14,458	1,538,212	11,208	897,539	11,510	916,042	5,944	525,473
1980	14,142	1,571,644	11,220	969,312	11,301	976,916	4,785	472,484
1981	15,731	1,897,526	12,939	1,233,805	13,027	1,240,975	5,109	545,036
1982	16,989	2,232,867	14,396	1,511,087	14,477	1,521,502	5,027	564,621
1983	16,798	2,305,447	14,425	1,621,243	14,479	1,626,567	5,389	643,424
1984	16,792	2,402,268	14,672	1,734,490	14,739	1,745,969	5,493	732,017
1985	18,675	2,955,251	16,662	2,220,042	16,763	2,233,633	6,247	918,237
1986	19,119	3,120,492	17,115	2,398,142	17,156	2,407,551	6,149	919,470

* Excludes NLM, DRR, and cancer control research projects. Represents grants coded R01, R22, R23, R29, R35, R37, R43, R44, P01, and U01. Original applications and their amendments for the same fiscal year are counted as one. As in other award tables, dollar figures represent total cost (direct and indirect). Indirect costs included under "Reviewed," "Recommended," and "Total eligible for funding" are based on indirect cost rates for each BID's funded applications in year shown. †Reviewed and recommended for funding in year shown. ‡Council recommended, plus those approvals from a prior year which were funded in year shown.

Figure 5
NIH RESEARCH GRANTS BY TYPE, FISCAL YEARS 1977-1986*



*Represents awards, not obligations. †Each supplemental grant is counted separately.

Table 24
NIH RESEARCH GRANTS BY TYPE, FISCAL YEARS 1977-1986 *
(Dollars in Thousands)

Fiscal year	Total number [†]	Total		New		Competing continuation		Noncompeting continuation		Supplemental [‡]	
		Number [‡]	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount
1977	15,748	15,564	\$1,435,716	2,603	\$187,635	1,861	\$241,477	10,274	\$ 971,681	1,010	\$34,923
1978	16,972	16,772	1,637,999	3,520	247,837	2,378	307,309	10,079	1,042,763	995	40,090
1979	19,503	19,204	1,951,655	4,307	328,448	2,308	313,850	11,820	1,265,205	1,068	44,152
1980	20,312	20,061	2,161,065	3,310	286,236	2,134	343,982	13,881	1,487,358	987	43,489
1981	20,604	20,418	2,331,355	3,168	281,331	2,436	383,157	14,104	1,625,830	896	41,037
1982	20,062	19,893	2,407,719	3,237	295,174	2,421	389,155	13,623	1,678,279	781	45,111
1983	21,002	20,819	2,702,266	3,842	371,995	2,407	428,818	14,051	1,859,056	702	42,397
1984	21,752	21,535	3,086,967	4,042	427,050	2,547	506,058	14,322	2,105,240	841	48,620
1985	23,158	22,958	3,591,345	4,703	577,633	2,703	563,882	14,865	2,394,161	887	55,670
1986	23,622	23,445	3,739,147	4,402	528,730	2,856	582,243	15,579	2,573,502	785	54,673

* Represents awards, not obligations. [†]Each supplemental grant is counted separately. [‡]Supplemental grants are counted only when the parent award is from prior years' funds; such supplements, if multiple, are counted as one.

Table 25
NIH COMPETING AND NONCOMPETING RESEARCH GRANTS BY NIH COMPONENT AND TYPE, FISCAL YEAR 1986
(Dollars in Thousands)

NIH component	Total number*	Total		New		Competing continuation		Noncompeting continuation		Supplemental*			
										Competing		Noncompeting	
		Number†	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount
Total	23,622	23,445	\$3,739,147	4,402	\$528,730	2,856	\$582,243	15,579	\$2,573,502	151	\$10,226	634	\$44,447
NIA	649	646	105,853	187	21,375	55	13,212	386	70,194	8	429	13	643
NIAID	1,892	1,888	258,607	347	39,475	248	45,474	1,278	172,401	6	380	13	878
NIAMS	681	676	93,936	118	11,803	100	16,485	450	64,957	4	274	9	417
NCI	4,014	3,972	743,554	672	94,977	424	96,848	2,581	527,569	3	69	334	24,089
NICHD	1,639	1,622	222,437	358	37,269	186	33,620	1,014	148,652	8	541	73	2,355
NIDR	530	530	63,793	171	10,944	65	10,635	290	41,678	—	—	4	573
NIDDK	2,342	2,333	340,876	355	37,802	318	62,243	1,603	235,121	13	480	53	5,230
NIEHS	408	404	70,880	82	8,873	36	9,093	281	50,871	3	170	6	1,873
NEI	1,239	1,237	150,172	241	23,166	163	24,353	811	101,807	2	255	22	591
NIGMS	3,151	3,139	426,407	541	52,990	522	83,731	2,025	285,798	19	1,385	44	2,502
NHLBI	3,205	3,187	619,185	623	86,599	364	88,263	2,168	440,203	22	2,363	28	1,758
NINCDS	2,241	2,237	324,401	418	47,460	312	57,310	1,483	217,258	6	419	22	1,954
NLM	52	52	6,000	16	1,056	2	187	33	4,635	—	—	1	122
DRR	1,487	1,432	303,266	227	49,758	57	39,886	1,137	208,779	55	3,404	11	1,438
NCNR	92	90	9,781	46	5,182	4	903	39	3,579	2	57	1	60

*Represents awards, not obligations. Each supplemental grant is counted separately. †Supplements are counted only when the parent award is from prior years' funds; such supplements, if multiple, are counted as one.

Table 26
NIH COMPETING AND NONCOMPETING RESEARCH GRANTS BY KIND AND TYPE, FISCAL YEAR 1986*
 (Dollars in Thousands)

Kind of grant and code	Total number [†]	Total		New		Competing continuation		Noncompeting continuation		Supplemental [‡]			
		Number [‡]	Amount	Number	Amount	Number	Amount	Number	Amount	Competing		Noncompeting	
										Number	Amount	Number	Amount
Total	23,622	23,445	\$3,739,147	4,402	\$528,730	2,856	\$582,243	15,579	\$2,573,502	151	\$10,226	634	\$44,447
Research projects	19,289	19,201	2,928,820	3,390	429,438	2,696	488,536	12,722	1,985,626	73	4,875	408	20,345
Traditional (R01)	16,471	16,403	2,213,435	2,538	317,713	2,344	347,606	11,220	1,534,174	53	2,984	316	10,958
Research program projects (P01)	655	638	485,204	68	48,972	95	78,883	439	350,282	19	1,854	34	5,213
New investigator research (R23)	1,031	1,031	50,997	313	15,709	2	90	712	35,153	—	—	4	45
SBIR grants (R43, R44)	423	423	42,408	303	15,043	70	17,624	46	9,383	—	—	4	357
Merit award (R37)	177	177	39,125	17	3,202	151	33,860	9	2,064	—	—	—	—
Outstanding investigator grants (R35)	45	45	23,248	21	9,555	—	—	23	13,579	—	—	1	115
First award (R29)	34	34	2,825	34	2,825	—	—	—	—	—	—	—	—
Other (R22, U01)	453	450	71,578	96	16,419	34	10,472	273	40,991	1	38	49	3,657
Research centers	638	580	482,454	34	22,814	86	78,799	420	365,624	54	3,962	44	11,255
Specialized (P50)	185	173	139,018	7	5,685	26	19,194	125	110,231	14	1,502	13	2,405
Core grants (P30)	170	164	137,749	7	3,425	23	22,984	117	104,874	2	104	21	6,362
General clinical (M01)	113	78	86,947	2	1,607	20	19,650	56	63,563	35	2,128	—	—
Comprehensive (P60)	37	34	40,062	1	705	3	4,955	27	32,167	3	228	3	2,008
Biotech resource grants (P41, U41)	68	66	33,858	3	1,436	9	7,137	51	25,039	—	—	5	246
Primate res. ctr. grants (P51)	7	7	23,866	—	—	1	3,658	6	20,208	—	—	—	—
Animal resource grants (P40)	41	41	10,090	5	3,844	4	1,221	31	4,826	—	—	1	199
RCMIs (G12)	16	16	9,799	8	5,047	—	—	7	4,716	—	—	1	36
Other (P20)	1	1	1,065	1	1,065	—	—	—	—	—	—	—	—
Other research	3,695	3,664	327,873	978	76,478	74	14,908	2,437	222,253	24	1,389	182	12,846
Biomed. res. sup & dev. (S03, S07, S10)	1,025	1,025	91,420	151	30,459	—	—	874	60,961	—	—	—	—
RCPAs (K)	1,335	1,335	80,014	229	13,598	15	968	1,083	65,420	—	—	8	29
Cooperative clinical (R10, U10)	405	394	61,048	7	331	25	4,547	208	44,517	2	56	163	11,597
Minority biomed. sup. grants (S06, S11, S14)	121	103	34,267	5	1,253	14	5,748	78	25,032	20	1,277	4	958
Other [§]	809	807	61,125	586	30,837	20	3,645	194	26,324	2	57	7	263

*Represents awards, not obligations. [†]Each supplemental grant is counted separately. [‡]Supplements are only counted when the parent award is from prior years' funds; such supplements, if multiple, are counted as one. [§]Includes R03, R13, R15, R18, R21, R24, R25, R26, U24, U26, U50; DRR: R23, R43, R44; NLM: R01, R23, R29, P50; NCNR: P01, R01, R23.

Table 27
NIH RESEARCH GRANTS BY KIND OF GRANT AND NIH COMPONENT, FISCAL YEAR 1986*
(Dollars in Thousands)

Kind of grant and code	Total		NIA		NIAID		NIAMS		NCI	
	Number†	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount
Total	23,445	\$3,739,147	646	\$105,853	1,888	\$258,607	676	\$93,936	3,972	\$743,554
Research projects	19,201	2,928,820	521	90,088	1,758	246,864	597	80,293	3,261	577,318
Traditional (R01)	16,403	2,213,435	403	49,401	1,410	189,891	494	64,926	2,741	379,507
Research program projects (P01)	638	485,204	60	34,319	48	22,492	12	8,622	158	138,542
New investigator research (R23)	1,031	50,997	23	1,099	109	5,169	64	3,313	128	6,705
SBIR grants (R43, R44)	423	42,408	22	1,541	33	3,309	9	1,250	82	7,501
Merit award (R37)	177	39,125	—	—	46	10,061	6	1,276	27	5,200
Outstanding investigator grants (R35)	45	23,248	—	—	—	—	—	—	45	23,248
First award (R29)	34	2,825	—	—	—	—	12	906	—	—
Other (R22, U01)	450	71,578	13	3,729	112	15,941	—	—	80	16,615
Research centers	580	482,454	14	9,925	19	6,008	14	9,378	65	88,426
Specialized (P50)	173	139,018	12	9,361	19	6,008	—	—	—	—
Core grants (P30)	164	137,749	2	564	—	—	1	385	64	87,361
General clinical (M01)	78	86,947	—	—	—	—	—	—	—	—
Comprehensive (P60)	34	40,062	—	—	—	—	13	8,993	—	—
Biotech. resource grants (P41, U41)	66	33,858	—	—	—	—	—	—	—	—
Primate res. ctr. grants (P51)	7	23,866	—	—	—	—	—	—	—	—
Animal resource grants (P40)	41	10,090	—	—	—	—	—	—	—	—
RCMIs (G12)	16	9,799	—	—	—	—	—	—	—	—
Other (P20)	1	1,065	—	—	—	—	—	—	1	1,065
Other research	3,664	327,873	111	5,840	111	5,735	65	4,265	646	77,810
Biomed res. sup. & dev. (S03, S07, S10)	1,025	91,420	—	—	—	—	—	—	—	—
RCPAs (K)	1,335	80,014	86	5,016	79	4,310	54	3,331	122	6,594
Cooperative clinical (R10, U10)	394	61,048	—	—	—	—	—	—	379	59,955
Minority biomed. sup. grants (S06, S11, S14)	103	34,267	—	—	—	—	—	—	—	—
Other‡	807	61,125	25	824	32	1,425	11	934	145	11,262

* Represents awards, not obligations. † Supplemental grants are counted only when the parent award is from prior years' funds; such supplements, if multiple, are counted as one. ‡ Includes R03, R13, R15, R18, R21, R24, R25, R26, U24, U26, U50; DRR: R23, R43, R44; NLM: R01, R23, R29, P50; NCNR: P01, R01, R23. (Continued)

Table 27 (Cont.)
 NIH RESEARCH GRANTS BY KIND OF GRANT AND NIH COMPONENT, FISCAL YEAR 1986*
 (Dollars in Thousands)

Kind of grant and code	NICHD		NIDR		NIDDK		NIEHS		NEI	
	Number	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount
Total	1,622	\$222,437	530	\$63,793	2,333	\$340,876	404	\$70,880	1,237	\$150,172
Research projects	1,435	188,447	398	46,165	2,091	303,487	354	54,159	1,152	142,316
Traditional (R01)	1,193	143,811	319	38,989	1,764	241,335	289	36,477	977	124,667
Research program projects (P01)	57	31,253	9	3,256	34	27,427	21	13,794	—	—
New investigator research (R23)	101	4,925	52	2,454	135	6,749	25	1,188	27	1,405
SBIR grants (R43, R44)	35	3,375	15	888	46	4,025	11	1,055	19	1,967
Merit award (R37)	9	1,655	3	578	32	7,623	2	301	—	—
Outstanding investigator grants (R35)	—	—	—	—	—	—	—	—	—	—
First award (R29)	—	—	—	—	21	1,832	—	—	1	86
Other (R22, U01)	40	3,428	—	—	59	14,496	6	1,344	128	14,191
Research centers	48	26,555	16	12,550	32	24,193	15	14,694	30	5,992
Specialized (P50)	16	11,548	16	12,550	1	957	3	824	1	865
Core grants (P30)	32	15,007	—	—	24	15,434	12	13,870	29	5,128
General clinical (M01)	—	—	—	—	—	—	—	—	—	—
Comprehensive (P60)	—	—	—	—	7	7,803	—	—	—	—
Biotech. resource grants (P41, U41)	—	—	—	—	—	—	—	—	—	—
Primate res. ctr. grants (P51)	—	—	—	—	—	—	—	—	—	—
Animal resource grants (P40)	—	—	—	—	—	—	—	—	—	—
RCMIs (G12)	—	—	—	—	—	—	—	—	—	—
Other (P20)	—	—	—	—	—	—	—	—	—	—
Other research	139	7,434	116	5,078	210	13,196	35	2,027	55	1,864
Biomed. res. sup. & dev. (S03, S07, S10)	—	—	—	—	—	—	—	—	—	—
RCPAs (K)	110	6,137	46	3,678	174	11,950	25	1,444	18	1,041
Cooperative clinical (R10, U10)	—	—	—	—	—	—	—	—	—	—
Minority biomed. sup. grants (S06, S11, S14)	—	—	—	—	—	—	—	—	—	—
Other†	29	1,297	70	1,400	36	1,246	10	584	37	823

See footnotes at beginning of table.

(Continued)

Table 27 (Cont.)
NIH RESEARCH GRANTS BY KIND OF GRANT AND NIH COMPONENT, FISCAL YEAR 1986*
 (Dollars in Thousands)

Kind of grant and code	NIGMS		NHLBI		NINCDS		NLM		DRR		NCNR	
	Number	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount
Total	3,139	\$426,407	3,187	\$619,185	2,237	\$324,401	52	\$6,000	1,432	\$303,266	90	\$9,781
Research projects	3,012	412,185	2,682	505,856	1,940	281,642	—	—	—	—	—	—
Traditional (R01)	2,904	386,120	2,197	348,050	1,712	210,260	—	—	—	—	—	—
Research program projects (P01)	32	15,675	119	127,198	88	62,626	—	—	—	—	—	—
New investigator research (R23)	15	709	239	11,869	113	5,414	—	—	—	—	—	—
SBIR grants (R43, R44)	48	5,503	76	8,651	27	3,342	—	—	—	—	—	—
Merit award (R37)	13	4,178	39	8,253	—	—	—	—	—	—	—	—
Outstanding investigator grants (R35)	—	—	—	—	—	—	—	—	—	—	—	—
First award (R29)	—	—	—	—	—	—	—	—	—	—	—	—
Other (R22, U01)	—	—	12	1,834	—	—	—	—	—	—	—	—
Research centers	17	8,852	61	82,375	41	28,944	—	—	208	164,560	—	—
Specialized (P50)	17	8,852	47	59,109	41	28,944	—	—	—	—	—	—
Core grants (P30)	—	—	—	—	—	—	—	—	—	—	—	—
General clinical (M01)	—	—	—	—	—	—	—	—	78	86,947	—	—
Comprehensive (P60)	—	—	14	23,266	—	—	—	—	—	—	—	—
Biotech. resource grants (P41, U41)	—	—	—	—	—	—	—	—	66	33,858	—	—
Primate res. ctr. grants (P51)	—	—	—	—	—	—	—	—	7	23,866	—	—
Animal resource grants (P40)	—	—	—	—	—	—	—	—	41	10,090	—	—
RCMIs (G12)	—	—	—	—	—	—	—	—	16	9,799	—	—
Other (P20)	—	—	—	—	—	—	—	—	—	—	—	—
Other research	110	5,369	444	30,954	256	13,815	52	6,000	1,224	138,706	90	9,781
Biomed. res. sup. & dev. (S03, S07, S10)	—	—	—	—	—	—	—	—	1,025	91,420	—	—
RCPAs (K)	14	501	374	22,860	218	12,340	7	319	8	492	—	—
Cooperative clinical (R10, U10)	—	—	15	1,093	—	—	—	—	—	—	—	—
Minority biomed. sup. grants (S06, S11, S14)	—	—	—	—	—	—	—	—	103	34,267	—	—
Other‡	96	4,868	55	7,000	38	1,475	45	5,681	88	12,527	90	9,781

See footnotes at beginning of table.

Table 28
NIH RESEARCH GRANTS BY KIND OF GRANT, FISCAL YEARS 1977-1986*
(Dollars in Millions)

Fiscal year	Total number [†]	Total		Research projects [‡]						Research centers [§]			Other research		
		Number	Amount	Number	Amount					No.	Amt.	Percent	No.	Amt.	Percent
					Total	Percent	R01	P01	Other						
1977	15,748	15,564	\$1,435.7	12,594	\$ 996.8	69.4%	\$ 767.5	\$219.8	\$ 9.5	574	\$278.6	19.4%	2,396	\$160.3	11.2%
1978	16,972	16,772	1,638.0	13,560	1,146.8	70.0	901.1	229.6	16.1	597	307.1	18.8	2,615	184.0	11.2
1979	19,503	19,204	1,951.7	15,770	1,402.0	71.8	1,118.6	260.1	23.3	664	339.4	17.4	2,770	210.3	10.8
1980	20,312	20,061	2,161.1	16,683	1,594.7	73.8	1,267.9	297.5	29.2	539	335.3	15.5	2,839	231.1	10.7
1981	20,604	20,418	2,331.4	16,908	1,767.1	75.8	1,402.6	325.4	39.1	520	339.4	14.6	2,990	224.8	9.6
1982	20,062	19,893	2,407.7	16,334	1,834.4	76.2	1,456.4	327.2	50.9	521	347.6	14.4	3,038	225.7	9.4
1983	21,002	20,819	2,702.3	17,212	2,098.6	77.7	1,665.3	357.5	75.8	501	375.7	13.9	3,106	228.0	8.4
1984	21,752	21,535	3,087.0	17,761	2,404.8	77.9	1,907.5	393.2	104.1	529	431.0	14.0	3,245	252.1	8.1
1985	23,158	22,958	3,591.3	18,905	2,784.8	77.5	2,174.6	461.5	148.8	572	483.3	13.5	3,481	323.2	9.0
1986	23,622	23,445	3,739.1	19,201	2,928.8	78.3	2,213.4	485.6	229.8	580	482.5	12.9	3,664	327.9	8.8

*Represents awards, not obligations. [†]Each supplemental grant is counted separately. [‡]Excludes NLM, DRR, and NCNR (included under Other research). [§]Excludes NLM P50 and U50 grants (included under Other research). ^{||}Supplemental grants are counted only when the parent award is from prior years' funds; such supplements, if multiple, are counted as one.

Table 29
NUMBERS OF NIH RESEARCH GRANTS WITH DOLLARS BUDGETED FOR EQUIPMENT AND
AMOUNTS BUDGETED BY KIND OF GRANT, FISCAL YEARS 1977-1986
(Dollars in Thousands)

Kind of grant and code	1977		1978		1979		1980		1981	
	Number	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount
Total	7,997	\$59,945	8,889	\$66,452	10,234	\$85,895	9,723	\$78,863	9,383	\$72,309
Research projects	7,210	45,025	8,108	52,823	9,409	65,938	8,939	62,937	8,733	61,736
Traditional (R01)	6,766	35,221	7,585	43,151	8,866	52,864	8,365	51,651	8,065	52,024
Research program projects (P01)	335	9,444	335	8,908	337	12,296	359	10,431	366	8,215
Merit award (R37)	—	—	—	—	—	—	—	—	—	—
New investigator research (R23)	85	288	156	622	168	601	161	573	251	1,085
Outstanding investigator grants (R35)	—	—	—	—	—	—	—	—	—	—
First award (R29)	—	—	—	—	—	—	—	—	—	—
Other (R22, U01)	24	72	32	142	38	176	54	282	51	411
Research centers	322	11,732	353	10,187	410	17,087	317	11,675	292	8,107
Biotech. resource grants (P41, U41)	30	2,009	31	707	86	7,780	32	2,318	31	1,428
Specialized (P50)	142	3,764	159	3,477	157	3,277	113	3,443	110	2,615
Core grants (P30)	79	4,244	91	4,542	85	3,883	79	3,676	72	2,595
RCMIs (G12)	—	—	—	—	—	—	—	—	—	—
Animal resource grants (P40)	28	824	26	671	32	1,085	24	608	21	316
Primate res. ctr. grants (P51)	—	—	—	—	—	—	5	219	3	68
General clinical (M01)	14	142	11	103	19	541	38	1,076	30	686
Comprehensive (P60)	23	719	30	649	29	505	26	335	25	398
Other	6	31	5	38	2	17	—	—	—	—
Other research	465	3,189	428	3,441	415	2,870	467	4,251	358	2,466
Biomed. res. sup. & dev. (S03, S10)	—	—	—	—	—	—	—	—	—	—
Minority biomed. sup. grants (S06, S11, S14)	79	1,561	67	1,442	35	707	52	2,218	46	1,316
RCPAs (K)	43	117	64	164	79	194	102	309	100	249
Cooperative clinical (R10, U10)	68	232	53	140	43	156	43	92	36	148
Other	275	1,278	244	1,695	258	1,813	270	1,633	176	752

(Continued)

Table 29 (Cont.)
**NUMBERS OF NIH RESEARCH GRANTS WITH DOLLARS BUDGETED FOR EQUIPMENT AND
 AMOUNTS BUDGETED BY KIND OF GRANT, FISCAL YEARS 1977-1986**
 (Dollars in Thousands)

Kind of grant and code	1982		1983		1984		1985		1986	
	Number	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount
Total	8,627	\$73,718	9,231	\$88,410	9,859	\$110,220	10,768	\$146,269	10,586	\$139,121
Research projects	8,005	59,994	8,464	61,502	8,853	69,268	9,598	85,174	9,317	81,621
Traditional (R01)	7,318	49,469	7,740	51,367	8,083	58,165	8,772	72,740	8,398	66,688
Research program projects (P01)	324	8,788	339	8,173	343	8,984	363	10,022	376	10,499
Merit award (R37)	—	—	—	—	—	—	—	—	128	1,759
New investigator research (R23)	301	1,253	288	1,221	318	1,240	336	1,391	264	1,032
Outstanding investigator grants (R35)	—	—	—	—	—	—	16	289	33	564
First award (R29)	—	—	—	—	—	—	—	—	14	66
Other (R22, U01)	62	484	97	741	109	879	111	732	104	1,014
Research centers	276	8,228	273	9,046	356	15,218	362	20,109	338	17,211
Biotech. resource grants (P41, U41)	33	1,871	38	2,695	38	4,525	51	6,601	44	4,677
Specialized (P50)	108	2,924	96	1,531	127	2,748	125	3,359	113	3,019
Core grants (P30)	62	1,478	59	1,494	85	2,637	84	4,062	75	2,662
RCMIs (G12)	—	—	—	—	—	—	7	1,516	13	1,886
Animal resource grants (P40)	19	675	16	295	17	245	16	70	18	1,706
Primate res. ctr. grants (P51)	5	279	7	1,084	6	1,005	7	2,003	7	1,631
General clinical (M01)	34	749	41	1,276	56	3,631	52	2,234	52	1,436
Comprehensive (P60)	15	253	16	670	27	427	20	266	15	118
Other	—	—	—	—	—	—	—	—	1	26
Other research	346	5,496	494	17,862	650	25,735	808	40,986	931	40,289
Biomed. res. sup. & dev. (S03, S10)	23	3,700	88	13,410	114	19,591	171	31,816	151	30,459
Minority biomed. sup. grants (S06, S11, S14)	34	476	52	2,887	54	2,487	61	2,134	49	1,757
RCPAs (K)	82	238	92	257	99	282	142	452	149	558
Cooperative clinical (R10, U10)	27	111	43	242	40	414	35	286	19	74
Other	180	971	219	1,066	343	2,961	399	6,298	563	7,440

Table 30
INDIRECT COSTS OF NIH RESEARCH GRANTS BY TYPE OF PERFORMER, SELECTED FISCAL YEARS 1979-1986 *
(Dollars in Thousands)

Type of Performer	1979			1981			1983			1985			1986		
	Total cost	Indirect cost		Total cost	Indirect cost		Total cost	Indirect cost		Total cost	Indirect cost		Total cost	Indirect cost	
		Amount	Percent		Amount	Percent		Amount	Percent		Amount	Percent		Amount	Percent
Total	\$1,844,440	\$512,344	27.8%	\$2,222,925	\$654,318	29.4%	\$2,584,501	\$791,538	30.6%	\$3,408,092	\$1,069,034	31.4%	\$3,552,659	\$1,117,057	31.4%
Public	791,979	199,545	25.2	953,050	248,644	26.1	1,081,181	292,122	27.0	1,440,029	398,264	27.7	1,495,762	419,276	28.0
Private	1,052,461	312,799	29.7	1,269,875	405,674	31.9	1,503,320	499,416	33.2	1,968,063	670,770	34.1	2,056,897	697,781	33.9
Higher education	1,490,336	418,178	28.1	1,792,799	533,512	29.8	2,076,725	644,508	31.0	2,715,134	854,493	31.5	2,817,796	891,400	31.6
Public	757,105	193,006	25.5	910,931	239,962	26.3	1,039,497	282,668	27.2	1,388,317	385,800	27.8	1,445,554	407,925	28.2
Private	733,231	225,172	30.7	881,868	293,550	33.3	1,037,228	361,840	34.9	1,326,817	468,693	35.3	1,372,242	483,475	35.2
Research institutes	162,571	51,127	31.4	192,933	63,593	33.0	237,644	81,541	34.3	312,049	110,441	35.4	327,395	116,342	35.5
Public	1,884	446	23.7	1,439	449	31.2	1,641	494	30.1	1,869	570	30.5	1,923	562	29.2
Private	160,687	50,681	31.5	191,494	63,144	33.0	236,003	81,047	34.3	310,180	109,871	35.4	325,472	115,780	35.6
Independent hospitals†	148,898	35,653	23.9	182,416	47,694	26.1	203,873	52,313	25.7	277,314	80,743	29.1	286,133	83,522	29.2
Public	22,085	5,147	23.3	26,312	6,875	26.1	25,586	7,394	28.9	32,615	9,597	29.4	29,717	8,690	29.2
Private	126,813	30,506	24.1	156,104	40,819	26.1	178,287	44,919	25.2	244,699	71,146	29.1	256,416	74,832	29.2
Other	42,636	7,385	17.3	54,777	9,519	17.4	66,258	13,176	19.9	103,594	23,358	22.5	121,334	25,696	21.2
Public	10,905	946	8.7	14,368	1,358	9.5	14,456	1,566	10.8	17,228	2,296	13.3	18,568	2,100	11.3
Private	31,731	6,439	20.3	40,409	8,161	20.2	51,802	11,610	22.4	86,366	21,062	24.4	102,766	23,693	23.1

* Represents awards, not obligations. Unobligated balances from prior years' awards are carried forward as direct costs. Excludes RCPAs, BRS and BRD grants, conference grants, NCI education grants, and awards to minority student apprentice programs. † Includes government hospitals and those not owned by institutions shown above.

Table 31
AVERAGE SIZE OF NIH AWARDS BY KIND OF AWARD, SELECTED FISCAL YEARS 1977-1986
IN CURRENT AND CONSTANT DOLLARS (Thousands)*

Kind of award and code	Current dollars							Constant dollars†						
	1977	1979	1981	1983	1984	1985	1986	1977	1979	1981	1983	1984	1985	1986
Research projects	\$ 82.2	\$ 91.2	\$ 107.1	\$ 123.7	\$ 138.0	\$ 150.2	\$ 154.1	\$ 82.2	\$ 78.5	\$ 75.5	\$ 75.1	\$ 78.7	\$ 81.0	\$ 79.6
Traditional (R01)	67.4	78.1	92.6	109.7	123.5	134.5	136.8	67.4	67.2	65.3	66.6	70.4	72.6	70.6
Research program projects (P01)	484.9	577.7	629.6	667.2	720.5	797.6	797.1	484.9	497.0	443.9	405.3	411.0	430.4	411.5
SBIR grants (R43, R44)	—	—	—	53.5	84.9	95.0	100.4	—	—	34.2	32.5	48.4	51.2	51.8
Other (R22, R23, R29, R35, R37, U01)	40.8	42.6	48.5	63.2	70.7	79.0	96.5	40.8	36.6	75.5	38.4	40.3	42.6	49.8
Research centers	521.9	545.9	693.8	767.4	861.9	893.5	874.2	521.9	469.6	489.2	466.1	491.6	482.2	451.3
Specialized (P50)	544.6	632.5	709.6	813.7	898.7	895.7	864.4	544.6	544.1	500.3	494.3	512.6	483.4	446.2
Core grants (P30)	651.4	666.7	745.3	792.9	832.2	908.7	894.7	651.4	573.5	525.5	481.6	474.7	490.4	461.8
General clinical (M01)	568.6	643.6	798.1	988.1	1,079.3	1,121.1	1,114.7	568.6	553.7	562.7	600.2	615.6	605.0	575.4
Comprehensive (P60)	618.5	673.9	817.8	921.7	1,106.1	1,294.5	1,227.6	618.5	579.7	576.6	559.9	630.9	698.6	633.7
Biotech. resource grants (P41, U41)	272.9	178.3	420.9	420.9	526.8	556.4	531.7	272.9	153.4	296.8	255.7	300.5	300.2	274.5
Primate res. ctr grants (P51)	1,982.9	2,174.4	2,400.6	2,802.7	3,224.9	3,459.4	3,409.4	1,982.9	1,705.9	1,692.6	1,702.5	1,839.4	1,866.8	1,759.9
Animal resource grants (P40)	104.9	122.5	140.7	167.9	159.8	159.9	172.8	104.9	90.2	99.1	102.0	91.2	86.3	89.2
Other (G12, R07, P20)	198.7	384.3	—	54.7	—	681.6	676.7	198.7	330.6	—	33.2	—	367.8	349.3
Other research	68.6	77.3	81.2	81.8	86.5	102.6	105.8	68.6	66.5	57.3	49.7	49.4	55.4	54.6
RCPAs (K)	31.0	36.5	40.3	42.4	44.3	57.9	60.3	31.0	31.4	28.4	25.7	25.3	31.3	31.1
Biomed. res. sup. & dev. (S07, S08, S10)‡	87.1	91.8	84.5	95.0	101.2	129.9	123.9	87.1	79.0	59.6	57.7	57.7	70.1	63.9
Cooperative clinical (R10, U10)	135.6	177.2	171.5	149.4	155.3	170.6	208.5	135.6	152.5	120.9	90.8	88.6	92.1	107.6
Minority biomed sup. grants (S06, S11, S14)	119.3	267.2	315.4	379.8	393.0	365.4	340.9	119.3	229.9	222.4	230.7	224.2	197.2	176.0
Other§	94.6	99.0	98.7	67.9	71.1	82.9	105.6	94.6	85.2	69.6	41.2	40.5	44.7	54.5
Contracts	192.3	250.5	273.8	334.2	343.2	312.9	356.4	192.3	215.5	193.1	203.0	195.8	168.9	184.0
Training	41.3	42.9	58.2	55.0	55.4	67.0	68.9	41.3	36.9	41.0	33.4	31.6	36.2	35.6
Indiv. awards (F's except F09)	13.7	14.2	19.7	18.9	18.7	22.7	22.9	13.7	12.2	13.9	11.5	10.7	12.3	11.8
Inst'l awards (T's except T09)	86.9	93.3	108.6	103.5	104.5	134.2	133.0	86.9	80.2	76.6	62.9	59.6	72.4	68.6

*Represents total costs, except that supplements to prior years' grants are excluded. Constant dollars are based on the biomedical R&D price index (see inside back cover). †FY 1977 = 100. ‡Excludes minority high school student research apprentice program (S03). §Includes R03, R13, R15, R18, R21, R24, R25, R26, U24, U26, U50; DRR: R23, R43, R44; NLM: R01, R23, R29, P50; NCNR: P01, R01, R23.

Table 32
AVERAGE SIZE OF TRADITIONAL RESEARCH PROJECT (R01) AWARDS BY NIH COMPONENT, SELECTED
FISCAL YEARS 1977-1986 IN CURRENT AND CONSTANT DOLLARS (Thousands)*

NIH component	Current dollars							Constant dollars†						
	1977	1979	1981	1983	1984	1985	1986	1977	1979	1981	1983	1984	1985	1986
Total	\$67.4	\$78.1	\$ 92.6	\$109.7	\$123.5	\$134.5	\$136.8	\$67.4	\$67.2	\$65.3	\$66.6	\$70.4	\$72.6	\$70.6
NIA	60.4	67.6	81.2	99.5	112.2	120.7	124.5	60.4	58.1	57.2	60.4	64.0	65.1	64.3
NIAID	70.3	80.3	93.6	112.8	124.6	139.8	135.3	70.3	69.1	66.0	68.5	71.1	75.4	69.8
NIAMS	73.7	85.7	96.8	110.4	120.9	132.1	132.6	73.7	73.7	68.2	67.1	69.0	71.3	68.4
NCI	71.1	85.1	98.1	110.9	126.9	135.2	142.3	71.1	73.2	69.2	67.4	72.4	73.0	73.4
NICHD	65.6	74.0	89.7	104.8	118.7	126.8	124.6	65.6	63.7	63.3	63.7	67.7	68.4	64.3
NIDR	59.5	69.7	82.4	96.7	109.5	120.9	122.6	59.5	60.0	58.1	58.7	62.5	65.2	63.3
NIDDK	68.0	78.1	94.4	112.7	126.4	135.8	138.3	68.0	67.2	66.6	68.5	72.1	73.3	71.4
NIEHS	65.1	76.2	92.7	102.8	115.1	126.3	126.5	65.1	65.5	65.3	62.4	65.7	68.2	65.3
NEI	63.7	78.6	94.0	109.5	118.8	130.8	128.9	63.7	67.6	66.3	66.5	67.7	70.6	66.5
NIGMS	64.3	75.6	87.7	108.4	122.8	133.6	134.3	64.3	65.0	61.9	65.8	70.0	72.1	69.3
NHLBI	70.7	82.9	101.8	121.9	136.4	126.8	159.9	70.7	71.3	71.7	74.1	77.7	82.8	82.5
NINCDS	61.5	66.9	81.2	96.7	111.0	119.2	123.7	61.5	57.6	57.3	58.8	63.3	64.3	63.8

*Represents total costs, except that supplements to prior years' grants are excluded. Constant dollars are based on the biomedical R&D price index (see inside back cover). †FY 1977 = 100.

Table 33
AVERAGE LENGTH IN YEARS OF COMPETING TRADITIONAL RESEARCH PROJECT (R01) AWARDS BY NIH COMPONENT,
FISCAL YEARS 1977-1986

NIH component	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
All NIH	3.19	3.14	3.14	3.28	3.33	3.32	3.29	3.34	3.37	3.57
NIA	2.84	2.86	2.91	2.88	2.90	2.81	2.82	2.79	2.91	3.13
NIAID	3.41	3.41	3.25	3.44	3.51	3.51	3.48	3.52	3.39	3.50
NIAMS	3.25	3.39	3.23	3.25	3.30	3.23	3.35	3.30	3.33	3.68
NCI	3.10	3.14	3.17	3.33	3.29	3.24	3.22	3.23	3.20	3.44
NICHD	3.08	2.92	2.92	2.89	3.07	3.09	3.07	3.08	3.08	3.29
NIDR	3.00	3.09	2.92	3.18	3.14	3.04	3.11	2.97	3.26	3.19
NIDDK	3.43	3.30	3.28	3.34	3.45	3.62	3.47	3.37	3.45	3.58
NIEHS	2.98	3.00	2.85	3.13	3.08	3.16	3.25	3.19	3.13	3.33
NEI	3.19	3.18	3.35	3.64	3.52	3.40	3.51	3.57	3.48	3.67
NIGMS	3.45	3.22	3.15	3.31	3.52	3.49	3.46	3.52	3.52	3.88
NHLBI	3.09	3.12	3.16	3.35	3.30	3.29	3.22	3.24	3.52	3.56
NINCDS	2.84	2.83	2.97	3.10	3.14	3.14	3.01	3.53	3.46	3.61

Table 34

**AVERAGE SIZE OF NIH AWARDS BY KIND OF AWARD AND NIH COMPONENT, FISCAL YEAR 1977, AND FISCAL YEAR 1986
IN CURRENT AND CONSTANT DOLLARS (Thousands)*†**

Kind of grant and code	Total			NIA			NIAID			NIAMS			NCI		
	1977	1986		1977	1986		1977	1986		1977	1986		1977	1986	
		Current	Constant		Current	Constant		Current	Constant		Current	Constant		Current	Constant
Research projects	\$ 82.2	\$ 154.1	\$ 79.6	\$ 82.2	\$ 176.1	\$ 90.9	\$ 74.5	\$ 139.0	\$ 71.7	\$ 86.8	\$ 136.1	\$ 70.2	\$ 104.3	\$ 181.8	\$ 93.8
Traditional (R01)	67.4	136.8	70.6	60.4	124.5	64.3	70.3	135.3	69.8	73.7	132.6	68.4	71.1	142.3	73.4
Research program projects (P01)	484.9	797.1	411.5	296.3	596.0	307.7	335.1	488.2	252.0	383.6	768.2	396.5	645.3	944.9	487.8
SBIR grants (R43, R44)	—	100.4	51.8	—	70.0	36.2	—	100.3	51.8	—	138.9	71.7	—	89.8	46.3
Other (R22, R23, R29, R35, R37, U01)	40.8	96.5	49.8	15.2	139.5	72.0	62.3	95.1	49.1	—	52.2	26.9	—	190.2	98.2
Research centers	521.9	874.2	451.3	254.3	815.2	420.8	228.6	345.4	178.3	163.0	669.8	345.8	753.6	1,551.5	800.9
Specialized (P50)	544.6	864.4	446.2	—	921.9	475.9	114.4	345.4	178.3	—	—	—	—	—	—
Core grants (P30)	651.4	894.7	461.8	254.3	281.9	145.5	—	—	—	—	384.8	198.6	869.3	1,560.7	805.6
General clinical (M01)	568.6	1,114.7	575.4	—	—	—	—	—	—	—	—	—	—	—	—
Comprehensive (P60)	618.5	1,227.6	633.7	—	—	—	—	—	—	163.0	691.8	357.1	—	—	—
Biotech. resource grants (P41, U41)	272.9	531.7	274.5	—	—	—	—	—	—	—	—	—	—	—	—
*Primate res. ctr. grants (P51)	1,982.9	3,409.4	1,759.9	—	—	—	—	—	—	—	—	—	—	—	—
Animal resource grants (P40)	104.9	172.8	89.2	—	—	—	—	—	—	—	—	—	—	—	—
Other (G12, R07, P20)	198.7	676.7	349.3	—	—	—	600.0	—	—	—	—	—	91.0	1,064.6	549.5
Other research	68.6	105.8	54.6	32.8	53.5	27.6	31.9	100.6	51.9	36.0	77.7	40.1	106.2	140.3	72.4
RCPAs (K)	31.1	60.3	31.1	26.7	59.6	30.7	31.9	54.6	28.2	31.5	61.7	31.8	31.5	56.3	29.1
Biomed. res. sup. & dev. (S07, S08, S10)‡	87.1	123.9	63.9	—	—	—	—	—	—	—	—	—	—	—	—
Cooperative clinical (R10, U10)	135.6	208.5	107.6	—	—	—	—	—	—	—	—	—	133.6	217.5	112.3
Minority biomed. sup. grants (S06, S11, S14)	119.3	340.9	176.0	—	—	—	—	—	—	—	—	—	—	—	—
Other§	94.6	105.6	54.5	63.1	33.0	17.0	—	147.3	76.0	78.8	107.5	55.5	114.2	96.2	49.7
Contracts	192.3 	356.4 	184.0 	99.4	298.6	154.2	128.4	569.2	293.8	261.5**	268.9	138.8	223.9	422.4	218.0
Training	41.3	68.9	35.6	45.6	69.3	35.8	30.8	81.9	42.3	33.0	58.5	30.2	43.7	87.1	45.0
Indiv. awards (F's except F09)	13.7††	22.9††	11.8††	14.7	24.8	12.8	13.7	24.7	12.8	14.4	25.2	13.0	13.5	22.3	11.5
Inst'l awards (T's except T09)	86.9	133.0	68.6	89.0	101.3	52.3	66.6	138.3	71.4	46.3	80.0	41.3	130.2	153.9	79.5

*Represents total costs, except that supplements to prior years' grants are excluded. Constant dollars are based on the biomedical R&D price index (see inside back cover). †FY 1977=100.

‡Excludes minority high school student research apprentice program (S03). §Includes R03, R13, R15, R18, R21, R24, R25, R26, U24, U26, U50; DRR: R23, R43, R44; NLM: R01, R23, R29, P50; NCNR: P01, R01, R23. ||Includes CC, DCRT, DRS, FIC, and OD. **Includes a multi-center study of \$822.3 thousand. If that contract were excluded, average size would be \$149.3 thousand. ††Includes FIC.

(Continued)

Table 34 (Cont.)

**AVERAGE SIZE OF NIH AWARDS BY KIND OF AWARD AND NIH COMPONENT, FISCAL YEAR 1977, AND FISCAL YEAR 1986
IN CURRENT AND CONSTANT DOLLARS (Thousands)*†**

Kind of grant and code	NICHD			NIDR			NIDDK			NIEHS			NEI		
	1977	1986		1977	1986		1977	1986		1977	1986		1977	1986	
		Current	Constant		Current	Constant		Current	Constant		Current	Constant		Current	Constant
Research projects	\$ 79.7	\$135.2	\$ 69.8	\$ 61.0	\$115.2	\$ 59.5	\$ 73.3	\$ 146.4	\$ 75.6	\$ 88.0	\$ 153.2	\$ 79.1	\$ 62.4	\$125.2	\$ 64.7
Traditional (R01)	65.6	124.6	64.3	59.5	122.6	63.3	68.0	138.3	71.4	65.1	126.5	65.3	63.7	128.9	66.5
Research program projects (P01)	322.1	579.1	298.9	310.9	407.5	210.3	331.0	806.7	416.4	407.6	707.9	365.4	—	—	—
SBIR grants (R43, R44)	—	98.9	51.0	—	59.2	30.6	—	89.2	46.0	—	95.9	49.5	—	103.5	53.4
Other (R22, R23, R29, R35, R37, U01)	107.1	60.5	31.2	23.2	47.2	24.4	52.2	111.9	57.8	—	81.7	42.2	9.3	104.4	53.9
Research centers	392.5	599.5	309.5	1,130.9	784.4	404.9	613.2	814.3	420.4	981.1	955.1	493.0	194.3	206.4	106.5
Specialized (P50)	475.2	816.1	421.3	1,130.9	784.4	404.9	454.0	956.5	493.8	—	274.7	141.8	248.3	864.7	446.4
Core grants (P30)	368.2	498.5	257.3	—	—	—	469.2	692.5	357.5	981.1	1,140.5	588.8	172.6	182.9	94.4
General clinical (M01)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Comprehensive (P60)	—	—	—	—	—	—	1,072.7	1,448.7	747.8	—	—	—	—	—	—
Biotech. resource grants (P41, U41)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Primate res. ctr. grants (P51)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Animal resource grants (P40)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other (G12, R07, P20)	32.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other research	29.5	61.4	31.7	29.2	47.5	24.5	30.8	86.4	44.6	25.7	63.3	32.7	30.1	35.4	18.3
RCPAs (K)	30.7	55.8	28.8	29.6	80.0	41.3	32.1	68.7	35.5	30.2	57.8	29.8	30.4	57.8	29.9
Biomed. res. sup. & dev. (S07, S08, S10)‡	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cooperative clinical (R10, U10)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Minority biomed. sup. grants (S06, S11, S14)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other§	13.4	77.7	40.1	27.9	27.1	14.0	11.9	121.6	62.8	3.4	75.9	39.2	10.5	24.5	12.6
Contracts	121.9	196.6	101.5	80.2	191.1	98.7	103.9	354.2	182.8	150.9	337.9	174.4	109.9	178.9	92.3
Training	46.6	63.8	33.0	40.9	47.5	24.5	29.5	63.9	33.0	63.6	98.2	50.7	30.8	37.3	19.2
Indiv. awards (F's except F09)	13.7	23.5	12.1	13.5	23.2	12.0	13.6	24.9	12.8	13.0	21.5	11.1	13.3	23.3	12.0
Inst'l awards (T's except T09)	88.8	108.0	55.8	70.4	72.3	37.3	52.3	105.0	54.2	119.2	178.8	92.3	600.9	109.0	56.2

See footnotes at beginning of table.

(Continued)

Table 34 (Cont.)

**AVERAGE SIZE OF NIH AWARDS BY KIND OF AWARD AND NIH COMPONENT, FISCAL YEAR 1977, AND FISCAL YEAR 1986
IN CURRENT AND CONSTANT DOLLARS (Thousands)*†**

Kind of grant and code	NIGMS			NHLBI			NINCDS			NLM			DRR			NCNR		
	1977	1986		1977	1986		1977	1986		1977	1986		1977	1986		1977	1986	
		Current	Constant		Current	Constant		Current	Constant		Current	Constant		Current	Constant		Current	Constant
Research projects	\$ 69.8	\$137.4	\$ 70.9	\$ 97.2	\$189.8	\$ 98.0	\$ 69.5	\$146.1	\$ 75.4	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Traditional (R01)	64.3	134.3	69.3	70.7	159.9	82.5	61.5	123.7	63.8	—	—	—	—	—	—	—	—	—
Research program projects (P01)	327.1	518.9	267.9	622.7	1,085.5	560.3	377.1	737.2	380.6	—	—	—	—	—	—	—	—	—
SBIR grants (R43, R44)	—	114.6	59.2	—	113.8	58.8	—	124.6	64.3	—	—	—	—	—	—	—	—	—
Other (R22, R23, R29, R35, R37, U01)	44.2	47.3	24.4	41.6	54.6	28.2	—	47.9	24.7	—	—	—	—	—	—	—	—	—
Research centers	607.5	634.6	327.6	879.7	1,383.3	714.1	408.7	743.8	384.0	—	—	—	430.3	810.1	418.2	—	—	—
Specialized (P50)	607.5	634.6	327.6	845.4	1,296.7	669.3	408.7	743.8	384.0	—	—	—	—	—	—	—	—	—
Core grants (P30)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General clinical (M01)	—	—	—	—	—	—	—	—	—	—	—	—	568.6	1,114.7	575.4	—	—	—
Comprehensive (P60)	—	—	—	969.3	1,661.9	857.9	—	—	—	—	—	—	—	—	—	—	—	—
Biotech. resource grants (P41, U41)	—	—	—	—	—	—	—	—	—	—	—	—	272.9	531.7	274.5	—	—	—
Primate res. ctr. grants (P51)	—	—	—	—	—	—	—	—	—	—	—	—	1,982.9	3,409.4	1,759.9	—	—	—
Animal resource grants (P40)	—	—	—	—	—	—	—	—	—	—	—	—	104.9	172.8	89.2	—	—	—
Other (G12, R07, P20)	—	—	—	—	—	—	—	—	—	—	—	—	—	650.9	336.0	—	—	—
Other research	74.1	137.1	70.8	32.8	81.5	42.0	33.6	54.0	27.9	34.5	115.3	59.5	92.2	152.0	78.4	—	109.2	56.4
RCPAs (K)	30.5	35.8	18.5	31.1	61.3	31.6	30.3	56.6	29.2	36.3	45.6	23.5	23.6	61.5	31.7	—	—	—
Biomed. res. sup. & dev. (S07, S08, S10)‡	—	—	—	—	—	—	—	—	—	—	—	—	87.1	123.9	63.9	—	—	—
Cooperative clinical (R10, U10)	—	—	—	—	72.9	37.6	526.6	—	—	—	—	—	—	—	—	—	—	—
Minority biomed. sup. grants (S06, S11, S14)	—	—	—	—	—	—	—	—	—	—	—	—	119.3	340.9	176.0	—	—	—
Other§	13.7	83.0	42.8	66.1	163.8	84.5	10.5	38.8	20.0	34.4	126.3	65.2	81.4	181.7	93.8	—	109.2	56.4
Contracts	131.4	718.5	370.9	223.9	315.2	162.7	142.3	192.5	99.4	136.4	186.3	96.1	189.8	1,130.5	583.6	—	—	—
Training	60.5	78.6	40.6	45.0	86.4	44.6	19.0	46.3	23.9	120.8	219.0	113.0	52.3	101.3	52.3	—	15.9	8.2
Indiv. awards (F's except F09)	13.1	21.3	11.0	14.1	25.3	13.1	13.7	22.5	11.6	—	—	—	16.2	27.7	14.3	—	12.0	6.2
Inst'l awards (T's except T09)	98.7	182.3	94.1	76.7	130.8	67.5	70.6	94.6	48.8	120.8	219.0	113.0	62.7	125.8	64.9	—	140.8	72.7

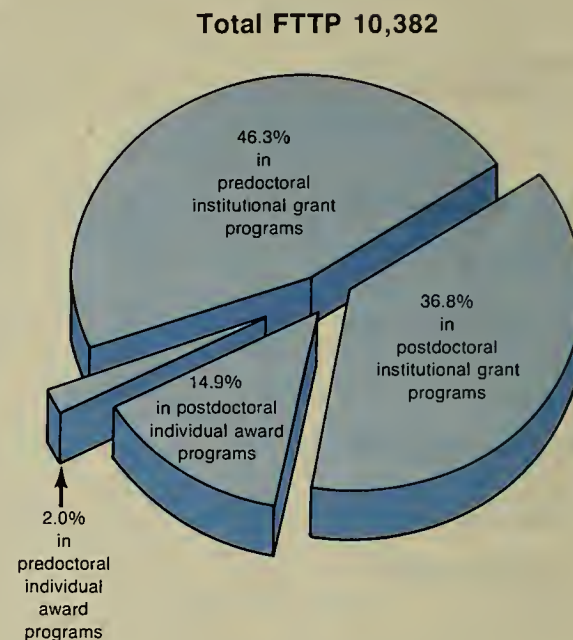
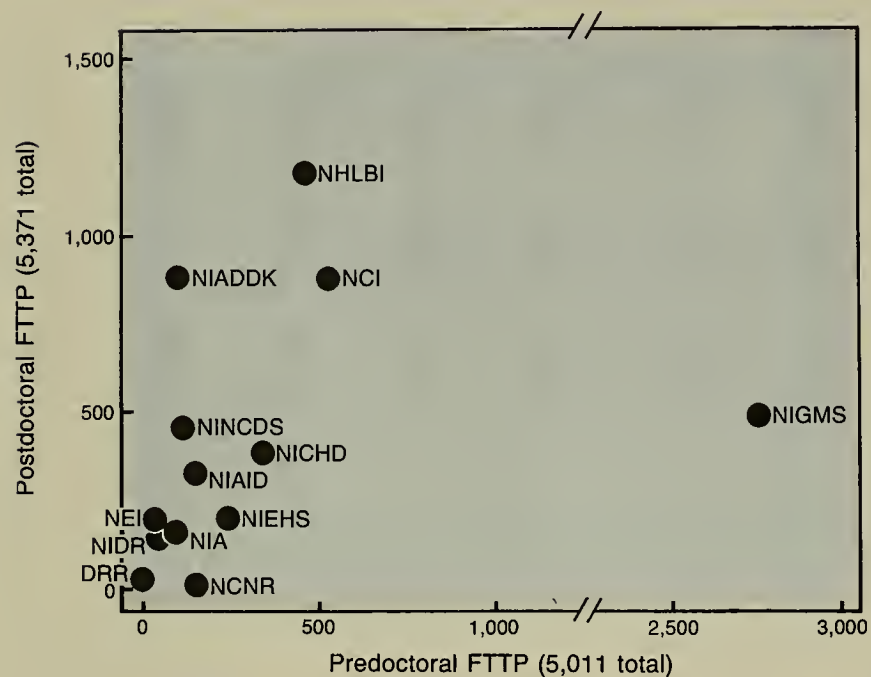
See footnotes at beginning of table.

Table 35
NUMBER OF NIH MAJOR CAREER DEVELOPMENT AWARDS BY RECIPIENT'S TYPE OF DOCTORATE,
FISCAL YEARS 1977-1986*

Kind of award and code	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
<i>INDIVIDUAL AWARDS</i>										
Total	952	1,149	1,261	1,246	1,167	1,144	1,106	1,133	1,249	1,237
Modified research career development (K04)	836	982	1,036	934	821	787	700	633	587	539
M.D.	240	253	257	222	196	178	151	135	126	117
Ph.D.	584	714	763	699	610	597	522	481	439	404
Other	12	15	16	13	15	12	27	17	22	18
Academic/Teacher (K07)	90	99	138	175	191	197	227	224	219	169
M.D.	59	76	106	135	154	157	183	177	179	134
Ph.D.	18	19	28	36	35	37	39	43	34	28
Other	3	4	4	4	2	3	5	4	6	6
Clinical investigator (K08)	36	68	87	137	155	160	179	239	344	382
M.D.	34	62	79	128	146	149	161	211	293	329
Ph.D.	1	2	3	5	6	10	11	12	19	27
Other	1	4	5	4	3	1	7	16	32	26
Physician scientist (K11)	—	—	—	—	—	—	—	37	96	139
M.D.	—	—	—	—	—	—	—	36	93	133
Ph.D.	—	—	—	—	—	—	—	1	2	2
Other	—	—	—	—	—	—	—	—	1	4
Dentist scientist (K15)	—	—	—	—	—	—	—	—	3	9
M.D.	—	—	—	—	—	—	—	—	2	8
Ph.D.	—	—	—	—	—	—	—	—	—	—
Other	—	—	—	—	—	—	—	—	1	1
<i>PROGRAM AWARDS</i>										
Total	—	—	—	—	—	—	—	3	17	18
Physician scientist (K12)	—	—	—	—	—	—	—	3	9	9
Dentist scientist (K16)	—	—	—	—	—	—	—	—	8	9

*Awards to recipients holding both "M.D. and Ph.D." or equivalent are under "M.D.".

Figure 6
NUMBER OF NIH FULL-TIME-EQUIVALENT TRAINING POSITIONS (FTTP),
BY ACADEMIC LEVEL, AND NIH COMPONENT, FISCAL YEAR 1986*



*Based on year of funding. Excludes FIC F05, F06, and F15 fellowships.

Source: Division of Financial Management, NIH.

Table 36
NUMBER OF NIH FULL-TIME-EQUIVALENT TRAINING POSITIONS (FTTP) BY ACADEMIC LEVEL,
NIH COMPONENT, AND TYPE, FISCAL YEARS 1977-1986*

Fiscal year and academic level	Total NIH			NIA			NIAID			NIADDK		
	Total	Indiv.	Inst'l	Total	Indiv.	Inst'l	Total	Indiv.	Inst'l	Total	Indiv.	Inst'l
1977	10,198	1,786	8,412	176	28	148	457	144	313	547	179	368
Predoctoral	5,130	17	5,113	95	—	95	90	—	90	—	—	—
Postdoctoral	5,068	1,769	3,299	81	28	53	367	144	223	547	179	368
1978	11,123	1,863	9,260	183	33	150	568	158	410	863	305	558
Predoctoral	5,540	18	5,522	81	—	81	134	—	134	—	—	—
Postdoctoral	5,583	1,845	3,738	102	33	69	434	158	276	863	305	558
1979	11,197	1,993	9,204	177	41	136	546	159	387	832	255	577
Predoctoral	5,349	24	5,325	62	—	62	123	—	123	—	—	—
Postdoctoral	5,848	1,969	3,879	115	41	74	423	159	264	832	255	577
1980	10,664	1,786	8,878	167	26	141	522	113	409	937	267	670
Predoctoral	5,095	16	5,079	73	—	73	137	—	137	—	—	—
Postdoctoral	5,569	1,770	3,799	94	26	68	385	113	272	937	267	670
1981	10,695	1,574	9,121	163	31	132	483	106	377	887	180	707
Predoctoral	5,353	21	5,332	71	—	71	149	—	149	—	—	—
Postdoctoral	5,342	1,553	3,789	92	31	61	334	106	228	887	180	707
1982	10,406	1,539	8,867	160	21	139	462	92	370	965	198	767
Predoctoral	5,081	26	5,055	74	—	74	150	—	150	—	—	—
Postdoctoral	5,325	1,513	3,812	86	21	65	312	92	220	965	198	767
1983	10,570	1,607	8,963	170	15	155	479	102	377	916	211	705
Predoctoral	5,254	34	5,220	83	—	83	146	—	146	52	—	52
Postdoctoral	5,316	1,573	3,743	87	15	72	333	102	231	864	211	653
1984	10,514	1,606	8,908	161	18	143	494	90	404	977	199	778
Predoctoral	5,149	51	5,098	71	—	71	147	—	147	70	—	70
Postdoctoral	5,365	1,555	3,810	90	18	72	347	90	257	907	199	708
1985	10,624	1,831	8,793	227	24	203	518	75	443	1,046	203	843
Predoctoral	4,963	52	4,911	93	—	93	163	—	163	107	—	107
Postdoctoral	5,661	1,779	3,882	134	24	110	355	75	280	939	203	736
1986	10,382	1,753	8,629	263	31	232	487	67	420	987	195	792
Predoctoral	5,011	204	4,807	98	—	98	156	—	156	99	—	99
Postdoctoral	5,371	1,549	3,822	165	31	134	331	67	264	888	195	693

*Based on year of funding. Excludes FIC F05, F06, and F15 fellowships.

(Continued)
 Source: Division of Financial Management, NIH.

Table 36 (Cont.)
NUMBER OF NIH FULL-TIME-EQUIVALENT TRAINING POSITIONS (FTTP) BY ACADEMIC LEVEL,
NIH COMPONENT, AND TYPE, FISCAL YEARS 1977-1986*

Fiscal year and academic level	NCI			NICHD			NIDR			NIEHS			NEI		
	Total	Indiv.	Inst'l	Total	Indiv.	Inst'l	Total	Indiv.	Inst'l	Total	Indiv.	Inst'l	Total	Indiv.	Inst'l
1977	1,520	335	1,185	651	112	539	204	57	147	323	33	290	260	95	165
Predoctoral	549	—	549	370	—	370	29	—	29	182	—	182	—	—	—
Postdoctoral	971	335	636	281	112	169	175	57	118	141	33	108	260	95	165
1978	1,536	299	1,237	829	136	693	167	50	117	350	30	320	222	92	130
Predoctoral	525	—	525	452	—	452	24	—	24	176	—	176	35	—	35
Postdoctoral	1,011	299	712	377	136	241	143	50	93	174	30	144	187	92	95
1979	1,542	221	1,321	779	144	635	208	51	157	387	32	355	316	104	212
Predoctoral	561	—	561	388	4	384	29	—	29	209	—	209	42	—	42
Postdoctoral	981	221	760	391	140	251	179	51	128	178	32	146	274	104	170
1980	1,530	222	1,308	739	135	604	231	64	167	445	32	413	278	98	180
Predoctoral	538	—	538	366	—	366	85	—	85	254	—	254	40	—	40
Postdoctoral	992	222	770	373	135	238	146	64	82	191	32	159	238	98	140
1981	1,531	206	1,325	571	65	506	283	70	213	462	32	430	231	74	157
Predoctoral	555	—	555	340	—	340	112	—	112	268	—	268	35	—	35
Postdoctoral	976	206	770	231	65	166	171	70	101	194	32	162	196	74	122
1982	1,498	161	1,337	626	114	512	203	50	153	446	33	413	223	72	151
Predoctoral	568	—	568	310	—	310	27	—	27	256	—	256	42	—	42
Postdoctoral	930	161	769	316	114	202	176	50	126	190	33	157	181	72	109
1983	1,483	161	1,322	671	95	576	221	44	177	459	30	429	219	79	140
Predoctoral	572	—	572	344	—	344	51	—	51	262	—	262	38	—	38
Postdoctoral	911	161	750	327	95	232	170	44	126	197	30	167	181	79	102
1984	1,465	178	1,287	656	113	543	221	41	180	448	28	420	222	85	137
Predoctoral	566	—	566	326	—	326	57	—	57	255	—	255	37	—	37
Postdoctoral	899	178	721	330	113	217	164	41	123	193	28	165	185	85	100
1985	1,464	241	1,223	702	127	575	197	37	160	483	44	439	220	111	109
Predoctoral	542	2	540	333	—	333	44	—	44	262	—	262	25	—	25
Postdoctoral	922	239	683	369	127	242	153	37	116	221	44	177	195	111	84
1986	1,394	174	1,220	728	115	613	192	45	147	446	43	403	232	118	114
Predoctoral	521	4	517	344	—	344	44	—	44	243	—	243	33	—	33
Postdoctoral	873	170	703	384	115	269	148	45	103	203	43	160	199	118	81

See footnote at beginning of table.

(Continued)

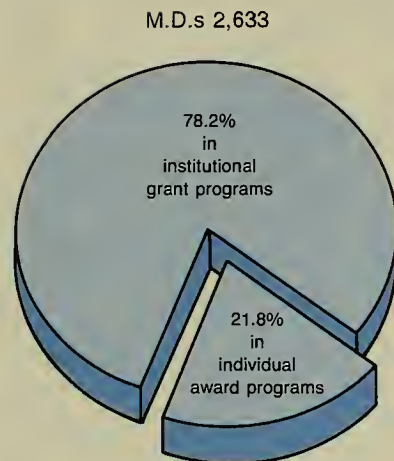
Table 36 (Cont.)
NUMBER OF NIH FULL-TIME-EQUIVALENT TRAINING POSITIONS (FTTP) BY ACADEMIC LEVEL,
NIH COMPONENT, AND TYPE, FISCAL YEARS 1977-1986 *

Fiscal year and academic level	NIGMS			NHLBI			NINCDS			DRR			NCNR		
	Total	Indiv.	Inst'l	Total	Indiv.	Inst'l	Total	Indiv.	Inst'l	Total	Indiv.	Inst'l	Total	Indiv.	Inst'l
1977	4,429	311	4,118	1,159	190	969	445	300	145	27	2	25	—	—	—
Predoctoral	3,626	17	3,609	153	—	153	36	—	36	—	—	—	—	—	—
Postdoctoral	803	294	509	1,006	190	816	409	300	109	27	2	25	—	—	—
1978	4,496	298	4,198	1,402	217	1,185	476	242	234	31	3	28	—	—	—
Predoctoral	3,800	18	3,782	258	—	258	55	—	55	—	—	—	—	—	—
Postdoctoral	696	280	416	1,144	217	927	421	242	179	31	3	28	—	—	—
1979	4,391	459	3,932	1,438	172	1,266	550	354	196	31	1	30	—	—	—
Predoctoral	3,616	20	3,596	278	—	278	41	—	41	—	—	—	—	—	—
Postdoctoral	775	439	336	1,160	172	988	509	354	155	31	1	30	—	—	—
1980	3,765	386	3,379	1,549	249	1,300	470	193	277	31	1	30	—	—	—
Predoctoral	3,151	16	3,135	370	—	370	81	—	81	—	—	—	—	—	—
Postdoctoral	614	370	244	1,179	249	930	389	193	196	31	1	30	—	—	—
1981	3,921	362	3,559	1,634	225	1,409	497	222	275	32	1	31	—	—	—
Predoctoral	3,330	21	3,309	408	—	408	84	—	84	1	—	1	—	—	—
Postdoctoral	591	341	250	1,226	225	1,001	413	222	191	31	1	30	—	—	—
1982	3,679	375	3,304	1,602	202	1,400	507	219	288	35	2	33	—	—	—
Predoctoral	3,145	26	3,119	424	—	424	84	—	84	1	—	1	—	—	—
Postdoctoral	534	349	185	1,178	202	976	423	219	204	34	2	32	—	—	—
1983	3,713	417	3,296	1,626	210	1,416	576	240	336	37	3	34	—	—	—
Predoctoral	3,155	34	3,121	447	—	447	103	—	103	1	—	1	—	—	—
Postdoctoral	558	383	175	1,179	210	969	473	240	233	36	3	33	—	—	—
1984	3,581	419	3,162	1,688	219	1,469	565	213	352	36	3	33	—	—	—
Predoctoral	3,067	51	3,016	443	—	443	109	—	109	1	—	1	—	—	—
Postdoctoral	514	368	146	1,245	219	1,026	456	213	243	35	3	32	—	—	—
1985	3,396	502	2,894	1,709	210	1,499	623	253	370	39	4	35	—	—	—
Predoctoral	2,820	50	2,770	465	—	465	109	—	109	—	—	—	—	—	—
Postdoctoral	576	452	124	1,244	210	1,034	514	253	261	39	4	35	—	—	—
1986	3,238	443	2,795	1,633	188	1,445	581	180	401	36	3	33	165	151	14
Predoctoral	2,743	59	2,684	459	—	459	120	—	120	—	—	—	151	141	10
Postdoctoral	495	384	111	1,174	188	986	461	180	281	36	3	33	14	10	4

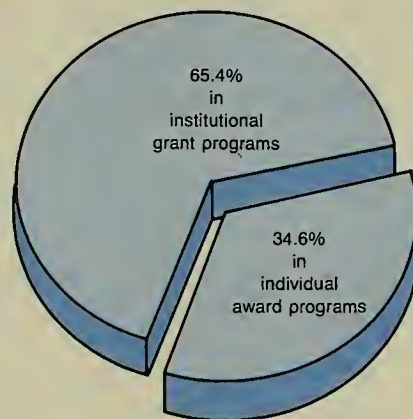
See footnote at beginning of table.

Figure 7
NUMBER OF PERSONS IN NIH RESEARCH TRAINING PROGRAMS BY ACADEMIC LEVEL,
FISCAL YEARS 1980-1986*

Postdoctoral trainees, Fiscal Year 1986



Ph.D.s 2,718



Academic level	1980	1981	1982	1983	1984	1985	1986 (est.)
Total	12,078	12,176	11,927	12,131	11,980	11,956	11,100
Individual	1,769	1,575	1,539	1,606	1,607	1,826	1,664
Institutional	10,309	10,601	10,388	10,525	10,373	10,130	9,436
Predoctoral	6,337	6,680	6,533	6,654	6,593	6,325	5,749
Individual	18	22	25	33	52	66	150
Institutional	6,319	6,658	6,508	6,621	6,541	6,259	5,599
Postdoctoral	5,741	5,496	5,394	5,477	5,387	5,631	5,351
Individual	1,751	1,553	1,514	1,573	1,555	1,760	1,514
Institutional	3,990	3,943	3,880	3,904	3,832	3,871	3,837
M.D.	2,086	2,050	2,094	2,222	2,284	2,383	2,633
Individual	282	259	272	326	366	364	574
Institutional	1,804	1,791	1,822	1,896	1,918	2,019	2,059
Ph.D.	3,655	3,446	3,300	3,255	3,103	3,248	2,718
Individual	1,469	1,294	1,242	1,247	1,189	1,396	940
Institutional	2,186	2,152	2,058	2,008	1,914	1,852	1,778

* Based on year of funding. Excludes FIC. "M.D. and Ph.D." or equivalent are under "M.D."

NOTE: Number of persons exceeds corresponding number of FFTP (see Table 36) because a trainee in a part-time position is counted as a full unit under persons but a fraction of a unit under FFTP. In addition, these data are not strictly comparable with FFTP counts because of somewhat different methods used by the two data sources.

(Continued)

Source: Division of Research Grants, NIH.

Figure 7 (Cont'd)
NUMBER OF PERSONS IN NIH RESEARCH TRAINING PROGRAMS BY ACADEMIC LEVEL,
FISCAL YEARS 1980-1986*

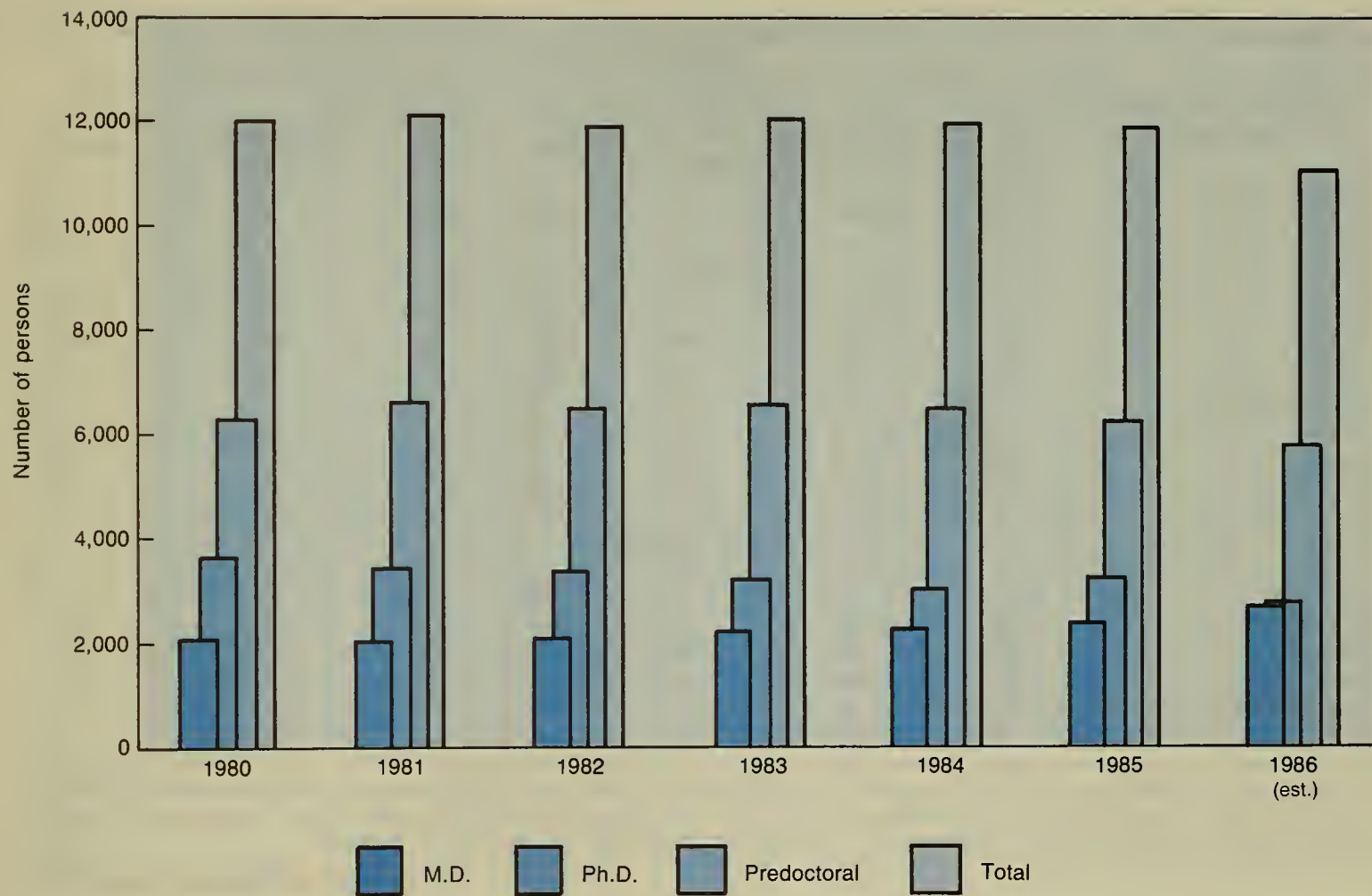


Table 37
NIH PERSONNEL BY DEGREE HELD, TYPE OF OCCUPATION, NIH COMPONENT, PROGRAM, AND STATUS *
As of end of Fiscal Year 1986: Total Staff, 13,529[†]
Total Full-Time Equivalent (FTE), 12,540[‡]

Degree held, and type of occupation	Permanent full-time						Other than permanent full-time§
	Total (program or status)	Program			Status		
		ODs of NIH and BIDs	Intramural research	Other	Civil service	Commissioned Officer Corps	
Total of A, B, or C	10,203	1,546	4,892	3,765	9,476	727	3,326
A. DEGREE HELD							
Doctorate	(1,822)	(159)	(1,128)	(535)	(1,321)	(501)	(1,759)
M.D.¶	594	56	434	104	220	374	905
Ph.D.	1,108	85	618	405	1,051	57	793
D.D.S. or D.M.D.	29	9	15	5	5	24	17
D.V.M.	53	5	40	8	13	40	20
Other	38	4	21	13	32	6	24
Other than doctorate	8,381	1,387	3,764	3,230	8,155	226	1,567
B. TYPE OF OCCUPATION							
Professional	3,819	185	2,740	894	3,136	683	2,322
Administrative	1,799	751	218	830	1,763	36	180
Technical	1,824	217	842	765	1,816	8	302
Clerical	1,531	341	579	611	1,531	—	316
Wage grade series	1,134	50	511	573	1,134	—	183
Other	96	2	2	92	96	—	23

*Excludes personnel coded as ceiling exempt and student volunteers. [†]Number exceeds FTE because each person is counted as a full unit; whereas, under FTE a person in a part-time position is counted as a fraction of a unit. Also includes some staff in without-pay status. [‡]Excludes staff in without-pay status. [§]Includes staff fellows and visiting scientists. ^{||}Includes persons holding both M.D. and Ph.D. or equivalent.

(Continued)

Source: Division of Personnel Management, NIH

Table 37 (Cont.)
NIH PERSONNEL BY DEGREE HELD, TYPE OF OCCUPATION, NIH COMPONENT, PROGRAM, AND STATUS*
 As of end of Fiscal Year 1986: Total Staff, 13,529[†]
 Total Full-Time Equivalent (FTE), 12,540[‡]

NIH component	Permanent full-time						Other than permanent full-time§
	Total (program or status)	Program			Status		
		ODs of NIH and BIDs	Intramural research	Other	Civil service	Commissioned Officer Corps	
C. NIH COMPONENT							
NIA	247	61	160	26	229	18	120
NIAID	518	73	336	109	462	56	244
NIAMS	26	—	14	12	23	3	18
NCI	1,592	297	1,059	236	1,419	173	600
NICHD	293	87	121	85	262	31	160
NIDR	213	43	145	25	189	24	167
NIDDK	422	57	264	101	379	43	251
NIEHS	511	169	289	53	498	13	206
NEI	136	30	76	30	131	5	79
NIGMS	128	86	—	42	126	2	47
NHLBI	624	110	238	276	563	61	319
NINCDS	448	11	254	183	412	36	294
DRR	73	48	—	25	65	8	32
NLM	458	18	67	373	454	4	88
FIC	45	8	—	37	40	5	22
NCNR	13	—	—	13	13	—	1
OD-NIH & management services	(2,139)	(271)	—	(1,868)	(2,090)	(49)	(166)
OD-NIH	169	169	—	—	162	7	24
OA	356	25	—	331	356	—	22
DRG	409	51	—	358	402	7	3
ORS	1,205	26	—	1,179	1,170	35	117
Central services	(2,317)	(177)	(1,869)	(271)	(2,121)	(196)	(512)
CC	1,677	117	1,560	—	1,513	164	430
DCRT	265	41	49	175	257	8	41
DRS	375	19	260	96	351	24	41

See footnotes at beginning of table.

Table 38
CLINICAL CENTER DATA ON NIH BY COMPONENT, AND ON NIMH AND NIAAA, FISCAL YEARS 1980, 1983, AND 1986

Component	Inpatient admissions *			Inpatient days*			Length of stay†			Number of beds (end of year)			Outpatient visits		
	1980	1983	1986	1980	1983	1986	1980	1983	1986	1980	1983	1986	1980	1983	1986
Total	7,540	8,397	8,830	117,932	116,025	108,781	16	14	12	473	486	502	103,140	129,369	145,323
NIH	7,302	8,011	8,404	99,316	95,918	87,313	14	12	10	405	418	431	98,619	114,548	130,120
NIA	—	161	132	—	1,143	978	—	7	7	—	6	6	—	739	357
NIAID	745	738	832	13,624	13,177	10,076	19	18	12	50	50	50	3,054	4,905	7,425
NIADDK	773	841	1,032	12,222	12,488	11,525	16	14	11	56	54	56	9,882	10,391	11,423
NCI	2,778	2,952	2,939	29,864	28,801	28,764	12	10	10	118	100	124	49,613	55,820	64,305
NICHD	585	915	901	7,463	7,753	6,525	13	9	7	18	42	40	4,337	5,986	6,479
NIDR	19	21	43	351	172	150	18	8	3	5	5	4	7,979	10,030	14,307
NEI	61	148	230	1,708	1,500	1,519	27	10	7	10	10	12	6,987	11,610	10,851
NHLBI	1,579	1,564	1,546	21,138	20,251	18,523	13	13	12	91	94	89	8,049	7,892	8,168
NINCDS	742	607	674	12,729	9,964	8,486	18	15	12	52	52	43	7,011	6,136	5,753
CC‡	20	64	75	217	669	767	9	9	9	5	5	7	1,707	1,039	1,052
NIMH§	238	386	301	18,616	20,107	15,491	71	53	48	68	68	61	4,521	14,821	14,321
NIAAA§	—	—	125	—	—	5,977	—	—	47	—	—	10	—	—	882

*Summation of daily censuses. †Average length of stay of discharged patients (number of days). ‡Clinical Center patients admitted to the Critical Care Medicine Department. §A component of ADAMHA, not NIH; NIMH and NIAAA intramural research is performed at the NIH Clinical Center.

Table 39
MORTALITY FROM SELECTED CAUSES, UNITED STATES, 1974 AND 1984

Causes of death	Ninth ICD Code *	1974 [†]			1984				Percent change in death rates 1974-1984
		Number	Percent of all deaths	Age-adjusted death rates per 100,000 population [‡]	Rank	Number	Percent of all deaths	Age-adjusted death rates per 100,000 population	
Total		1,934,388	100.0%	659.5		2,039,369	100.0%	545.9	-17.2%
Major cardiovascular diseases (excluding cerebrovascular)	390-429,439-448	803,502	41.5	250.1	1	819,091	40.2	195.0	-22.0
Diseases of the heart	390-398,402,404-429	738,171	38.2	233.2		765,114	37.5	183.6	-21.3
Atherosclerosis	440	32,239	1.7	8.0		24,426	1.2	4.2	-47.5
Hypertension with or without renal disease	401,403	6,894	0.4	2.7		7,774	0.4	1.8	-33.3
Malignant neoplasms	140-208	360,472	18.6	131.0	2	453,492	22.2	133.5	+1.9
Digestive organs and peritoneum	150-159	98,913	5.1	34.9		116,616	5.7	32.1	-8.0
Respiratory and intrathoracic	160-165	83,475	4.3	31.6		123,699	6.1	38.4	+21.5
Genital organs	179-187	43,111	2.2	15.1		48,955	2.4	13.1	-13.2
Female breast	174	32,424	1.7	23.2		39,472	1.9	23.2	0.0
Cerebrovascular diseases	430-438	207,424	10.7	59.5	3	154,327	7.6	33.4	-43.9
Diseases of the respiratory system	460-519	n.a.	n.a.	n.a.	4	149,686	7.3	n.a.	n.a.
Influenza and pneumonia	480-487	54,777	2.8	15.6		58,894	2.9	12.2	-21.8
Chronic obstructive pulmonary diseases and allied conditions	490-496	39,303	2.0	13.1		69,100	3.4	17.7	+35.1
Supplementary classification of external causes of injury and poisoning	E800-E999	156,931	8.1	70.6	5	145,012	7.1	56.2	-20.4
Diseases of the digestive system	520-579	n.a.	n.a.	n.a.	6	73,813	3.6	n.a.	n.a.
Chronic liver diseases and cirrhosis	571	33,319	1.7	14.9		27,317	1.3	10.0	-32.9
Endocrine, nutritional, and metabolic diseases, and immunity disorders	240-279	n.a.	n.a.	n.a.	7	49,544	2.4	n.a.	n.a.
Diabetes mellitus	250	37,329	1.9	12.4		35,787	1.8	9.5	-23.4
Diseases of the genitourinary system	580-629	n.a.	n.a.	n.a.	8	34,785	1.7	n.a.	n.a.
Diseases of the nervous system and sense organs	320-389	n.a.	n.a.	n.a.	9	28,306	1.4	n.a.	n.a.
Infective and parasitic diseases	001-139	15,722	0.8	5.0	10	24,490	1.2	6.8	+36.0
Certain conditions originating in the perinatal period	760-779	28,786	1.5	15.5	11	18,881	0.9	7.9	-49.0
Congenital anomalies	740-759	13,526	0.7	6.6	12	13,039	0.6	5.4	-18.2
All other diseases	Residual	n.a.	n.a.	n.a.		74,903	3.7	n.a.	n.a.

* *Ninth Revision International Classification of Diseases, 1975, (ICD)*. [†]Published data, based on the *Eighth Revision*, except as noted for death rates. Values are not given where comparability ratios between *Eighth* and *Ninth Revisions* are not available (n.a.). [‡]Comparability ratios applied to adjust for classification changes between the *Eighth* and *Ninth Revisions*.

Source: Based on data from NCHS, HHS, adjusted by NHLBI, NIH (301) 496-2327

Table 40
MORBIDITY FROM SELECTED CHRONIC CONDITIONS, UNITED STATES, 1985*
(In Thousands)

Condition	Prevalence	Condition	Prevalence	Condition	Prevalence
Selected conditions of the genitourinary, nervous, endocrine, metabolic and blood and blood-forming systems		Selected circulatory conditions (cont.)		Impairments	
Goiter or other disorders of the thyroid	2,465	Varicose veins of lower extremities	7,141	Visual impairment	8,496
Diabetes	6,134	Hemorrhoids	10,359	Color blindness	2,509
Anemias	3,350	Selected respiratory conditions		Cataracts	5,832
Epilepsy	1,030	Chronic bronchitis	11,618	Glaucoma	1,891
Migraine headache	8,316	Asthma	8,612	Hearing impairment	21,198
Neuralgia or neuritis, unspecified	696	Hay fever or allergic rhinitis without asthma	19,642	Tinnitus	6,228
Kidney trouble	3,376	Chronic sinusitis	32,492	Speech impairment	2,339
Bladder disorders	3,946	Deviated nasal septum	1,358	Absence of extremities (excludes tips of fingers or toes only)	1,526
Diseases of the prostate	1,301	Chronic disease of tonsils or adenoids	2,864	Paralysis of extremities, complete or partial	1,394
Disease of female genital organs	5,090	Emphysema	2,075	Deformity or orthopedic impairment	26,314
Selected circulatory conditions		Selected skin and musculoskeletal conditions		Back	14,531
Rheumatic fever with or without heart disease	1,505	Arthritis	30,060	Upper extremities	3,000
Heart disease	19,295	Gout, including gouty arthritis	2,273	Lower extremities	11,128
Ischemic heart disease	6,702	Intervertebral disc disorders	4,049	Selected digestive conditions	
Heart rhythm disorders	7,545	Bone spur or tendinitis, unspecified	2,093	Ulcer	4,614
Tachycardia or rapid heart	1,787	Disorders of bone or cartilage	1,196	Hernia of abdominal cavity	4,802
Heart murmurs	4,354	Trouble with bunions	2,629	Gastritis or duodenitis	2,991
Other and unspecified heart rhythm disorders	1,404	Bursitis, unclassified	4,827	Frequent indigestion	5,697
Other selected diseases of heart (excludes hypertension)	5,048	Sebaceous skin cyst	1,749	Enteritis or colitis	2,708
High blood pressure (hypertension)	29,249	Trouble with acne	4,489	Spastic colon	1,550
Cerebrovascular disease	2,701	Psoriasis	1,931	Diverticula of intestines	1,974
Hardening of the arteries	2,814	Dermatitis	9,105	Frequent constipation	3,789
		Trouble with dry (itching) skin, unclassified	4,041		
		Trouble with ingrown nails	5,422		
		Trouble with corns and calluses	5,159		

* National estimate based on household interviews of the civilian, noninstitutionalized population. The levels of estimates for 1985 may not be comparable to estimates for years prior to 1982 because as of 1982, data are based on a revised questionnaire and field procedures. Excludes cancer and mental illness.

Source: Derived from published data from NCHS, HHS (301) 436-7089.

Table 41
MORBIDITY FROM SELECTED ACUTE CONDITIONS, UNITED STATES, 1985*

Condition	Incidence (thousands)	Days per 100 persons per year			
		Restricted activity	Bed disability	Work loss [†]	School loss [‡]
Total	409,597	687.4	302.5	309.6	386.9
Infective and parasitic diseases	47,829	65.1	32.4	24.7	93.9
Common childhood diseases	3,507	8.3	3.0	1.1§	22.8
Intestinal virus, unspecified	8,266	9.8	5.6	3.1§	12.0§
Viral infections, unspecified	18,274	22.0	10.4	9.3	25.4
Other	17,782	25.0	13.5	11.2	33.8
Respiratory conditions	203,491	281.4	138.7	108.0	215.6
Common cold	71,235	69.0	28.1	20.9	58.3
Other acute upper respiratory infections	23,822	25.8	11.8	7.9	32.9
Influenza	94,409	149.0	80.7	65.7	104.7
Bronchitis	6,559	12.5	4.8	4.9§	8.6§
Pneumonia	2,691	17.8	10.6	7.2	5.9§
Other respiratory conditions	4,576	7.4	2.7§	1.4§	5.1§
Digestive system conditions	16,297	26.0	11.3	18.4	12.9§
Dental conditions	3,994	4.9	1.8§	3.6§	3.9§
Indigestion, nausea, and vomiting	8,582	6.7	2.8§	4.2§	8.1§
Other digestive conditions	3,721	14.4	6.7	10.6	0.9§
Injuries	64,020	166.1	53.1	104.4	23.6
Fractures and dislocations	8,252	52.0	17.7	27.5	7.4§
Sprains and strains	13,916	38.9	9.3	34.1	4.2§
Open wounds and lacerations	13,151	16.6	5.6	11.4	3.3§
Contusions and superficial injuries	15,697	25.6	6.3	13.4	5.3§
Other current injuries	13,004	33.0	14.2	18.0	3.3§
Selected other conditions	56,351	105.7	47.9	41.1	32.3
Eye conditions	2,955	2.4§	0.9§	1.5§	0.2§
Ear infections	18,335	16.2	8.5	3.1§	10.8§
Other ear conditions	3,855	3.0	0.8§	0.2§	3.5§
Urinary conditions	4,537	9.4	5.3	1.8§	0.7§
Disorders of menstruation	1,141	2.3§	0.9§	2.2§	1.1§
Other disorders of female genital tract	1,927	4.7	2.6§	4.0§	0.7§
Delivery and other conditions of pregnancy and puerperium	4,974	34.5	13.1	16.6	0.7§
Skin conditions	5,229	4.7	2.1§	3.7§	3.6§
Musculoskeletal conditions	6,988	21.3	9.1	7.0	3.5§
Headache, excluding migraine	3,168	3.4	1.9§	0.4§	3.7§
Fever, unspecified	3,243	3.7	2.7§	0.8§	3.7§
All other conditions	21,608	43.1	19.2	13.0	8.5§

*National estimate based on household interviews of the civilian, noninstitutionalized population. Excluded are all conditions not involving medical attention nor any restricted activity. The levels of estimates for 1985 may not be comparable to estimates for years prior to 1982 because as of 1982, data are based on a revised questionnaire and field procedures. [†]Per 100 currently employed persons 18 years or older. [‡]Children 5-17 years of age. [§]Figure does not meet standards of reliability or precision.

Source: Derived from published data from NCHS, HHS (301) 436-7089.

Figure 8
INCIDENCE OF AIDS AMONG ADULTS AND CHILDREN IN THE UNITED STATES
BY TRANSMISSION CATEGORY, 1982-1986

Transmission category	1982*	1983	1984	1985	1986
Total	917	2,106	4,555	8,349	13,058

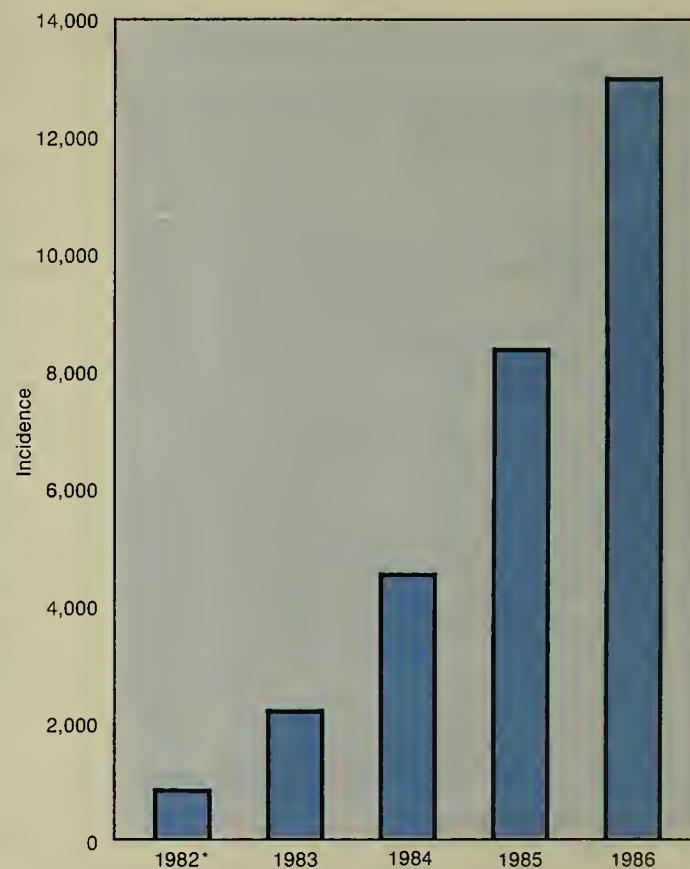
NUMBER OF ADULTS

Homosexual/bisexual male	588	1,284	2,934	5,504	8,448
IV drug abuser only	141	375	791	1,412	2,215
Both homosexual and IV drug user	76	202	420	596	951
Hemophilia	7	12	35	74	121
Heterosexual	60	108	169	278	517
Transfusion	6	26	53	160	285
Other/unknown	26	65	106	196	337

NUMBER OF CHILDREN

Hemophilia	1	1	2	8	11
Transfusion	2	4	5	19	21
Mother at risk/has AIDS	8	26	38	101	147
Other/unknown	2	3	2	1	5

*Data prior to 1982 are combined with 1982.



Source: Centers for Disease Control.

TECHNICAL NOTES

The NIH Data Book (Basic Data Relating to the National Institutes of Health) has been published annually since 1961. The book is prepared under the direction of the Chief, Program Analysis Branch, Division of Program Analysis, Office of Program Planning and Evaluation, Office of the Director. Copies of the current issue are also available at NIH Information offices.

Detail may not add to totals because of rounding and, where noted, because of data included in totals only. Supplemental awards, unless noted, are only counted when the parent is from prior years' funds, and such supplements, if multiple, are counted as one. Historical data are often revised.

Sources of the data: Data are derived from NIH records and studies unless otherwise noted. DPA (see Abbreviations below) develops the data on national and Federal support for health R&D from annual surveys and other sources. Other sources of information are: NIH awards and number of persons in NIH training programs—Statistics and Analysis Branch, DRG; NIH obligations, appropriations, and number of full-time-equivalent training positions (FTTP)—Division of Financial Management, OA; NIH personnel—Division of Personnel, ORS; Prevention—NIH Division of Disease Prevention; Nutrition—NIH Nutrition Coordinating Committee; and U.S. Incidence of AIDS—Centers for Disease Control. Morbidity and mortality statistics

are compiled by NCHS, with adjustments by NIH.

New NIH components: The Health Research Extension Act of 1985 (P.L. 99-158) created a new National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS), which was formally established on April 8, 1986. P.L. 99-158 also designated the remaining components of the former National Institute of Arthritis, Diabetes, and Digestive and Kidney Diseases (NIADDK) as the National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK). The new Institutes are shown in obligations tables starting with FY 1986. In trend tables of awards, NIAMS and NIDDK have been projected back to the beginning of the trend period based on the NIADDK programs that were allocated to each new Institute. On April 18, 1986, Secretary Otis R. Bowen, M.D., announced the creation of another new NIH component, the National Center for Nursing Research (NCNR). NCNR is included with OD for FY 1986 in obligations tables, but is shown separately for FY 1986 in awards tables.

Patricia E. McKinley, Ph.D. and Anita L. Harris, editors
(301) 496-9291

DEFINITIONS

APPROPRIATIONS—represent an authorization by an act of Congress that permits Federal agencies to incur obligations and to make payments out of the Treasury for specified purposes. An appropriation usually follows enactment of authorizing legislation. Appropriations do not represent cash actually set aside in the Treasury for purposes specified in the appropriation act; they represent limitations of amounts that agencies may obligate during the period of time specified in the respective appropriation acts.

AWARDS—include R&D grants and contracts, research training grants and fellowships, construction grants, and Medical Library resource grants. See “Obligations” for explanation of reporting differences between awards and obligations.

BIOTECHNOLOGY—any technique that uses living organisms (or parts of organisms) to make or modify products, to improve plants or animals, or to develop microorganisms for specific uses. Directly related research is defined as that involving genetic manipulation, cloning of DNA, use of special techniques to isolate and detect DNA, creation of hybridomas and production of monoclonal antibodies, and computer methods used to analyze DNA and protein sequences. Broader science base refers to research underlying new biotechnology and includes investigations in genetics, molecular biology, cell biology, and immunology.

HEALTH R&D—denotes medical and health-related projects, resources, and general support, but no training or construction. In health R&D series (pages 1-5), the NIH component contains certain items not classified as research in obligations tables, such as cancer control, portions of NLM and NIH direct operations, and foreign currency funds not directly appropriated to NIH.

OBLIGATIONS—represent amounts of orders placed, grants and contracts awarded, services received, and similar transactions during a given period that will require payments during the same or a future period.

Obligations vs. Awards Reporting—Differences between NIH “obligations” (Tables 5-12), and “awards” (Tables 13-35), are caused by differences in the treatment of certain items (cancer control, scientific evaluation, administering vs. funding BID, etc.) in the accounting methods used. In obligations tables, cancer control is separately identified; in awards tables, it is integrated within various mechanisms. This category accounts for the largest dollar difference between the two. Obligations tables include scientific evaluation grants/agreements, while awards tables do not. In obligations tables, BID data are shown under the BID which received the appropriation; in awards tables, the data are presented under the BID with the administering responsibility. Obligations tables include NIH interagency agreements (amounts

appropriated to NIH but transferred to other Federal agencies for administration), and exclude funds appropriated to other agencies and transferred to NIH for administration. Conversely, awards tables include funds appropriated to other agencies but transferred to and administered by NIH, and exclude NIH interagency agreements.

PREVENTION—includes both prevention research and prevention-relevant research. The former includes research designed to yield results directly applicable to interventions for prevention of disease or progression of detectable but asymptomatic disease. The latter includes studies aimed at elucidating the chain of causation of acute and chronic diseases, and therefore includes relevant basic research efforts.

R&D CONTRACTS—include both intramural and extramural “N01” contracts and SBIR contracts. For NLM, not all contracts support strictly research activities.

RESEARCH GRANTS OR R&D GRANTS—include research project grants, center grants, and “other research” grants. See Table 26 for classifications. Note that cooperative agreements (U awards) are included under all three of these categories, and that RCPAs (K awards) are included under “Other research.” NIH’s legislative mandate to support a required number of “research

grants” refers to the total of new, competing continuation, and competing supplemental research projects.

RESEARCH MANAGEMENT AND SUPPORT—includes management of extramural programs, ODs of I/RDs, and some management costs applicable to overall operations.

SCIENTIFIC EVALUATION GRANTS/AGREEMENTS—are grants and cooperative agreements (R09, P09, U09, K09, and T09) to chairmen of initial review groups, program project committees, training committees, and other review groups to provide funds for the operation of the group. These awards are included in obligations tables, but are excluded from awards tables.

ABBREVIATIONS

A & S — Arts & Sciences

ADAMHA — Alcohol, Drug Abuse, & Mental Health
Administration

AEC — Atomic Energy Commission

AID — Agency for International Development

AIDS — Acquired Immunodeficiency Syndrome

BID — NIH Bureaus, Institutes, and Research Divisions
(includes NLM and Centers)

BRD — Biomedical Research Development grants

BRDPI — Biomedical R&D Price Index

BRS — Biomedical Research Support grants

CC — Clinical Center

CDC — Centers for Disease Control

DCRT — Division of Computer Research & Technology

DPA — Division of Program Analysis

DRG — Division of Research Grants

DRR — Division of Research Resources

DRS — Division of Research Services

ERDA — Energy Research & Development Administration

FDA — Food & Drug Administration

FFRDC — Federally Funded R&D Center

FIC — John E. Fogarty International Center for Advanced
Study in the Health Sciences

FTE — Full-Time Equivalent (personnel)

FOTP — Full-Time-Equivalent Training Positions
(research training)

FY — Fiscal Year: October 1 - September 30

GNP — Gross National Product

GRS — General Research Support grants to institutions

HCFA — Health Care Financing Administration

HEW — Department of Health, Education, & Welfare

HHS — Department of Health & Human Services

HRSA — Health Resources and Services Administration

I/RD — Institutes & Research Divisions
(excludes NLM, OD, buildings and facilities)

MBS — Minority Biomedical Support grants

NCHS — National Center for Health Statistics

NCI — National Cancer Institute

NCNR — National Center for Nursing Research

NEI — National Eye Institute

NHLBI — National Heart, Lung, & Blood Institute

NIA — National Institute on Aging

NIAAA — National Institute of Alcohol Abuse and Alcoholism

NIADDK — National Institute of Arthritis, Diabetes, &
Digestive & Kidney Diseases

NIAID — National Institute of Allergy & Infectious Diseases

NIAMS — National Institute of Arthritis & Musculoskeletal &
Skin Diseases

NICHD — National Institute of Child Health & Human
Development

NIDDK — National Institute of Diabetes & Digestive &
Kidney Diseases

NIDR — National Institute of Dental Research

NIEHS — National Institute of Environmental Health
Sciences

NIGMS — National Institute of General Medical Sciences

NIH — National Institutes of Health

NIMH — National Institute of Mental Health

NINCDS — National Institute of Neurological &
Communicative Disorders & Stroke

NLM — National Library of Medicine

NRSAs — National Research Service Awards

NSF — National Science Foundation

OA — Office of Administration, NIH

OD — Office of the Director, NIH or I/RD

OPPE — Office of Program Planning & Evaluation, NIH

ORS — Office of Research Services, NIH

P01 — DRG code for research program project grants
(see Table 26 for classification of other research grants)

PHS — Public Health Service

RCMIs — Research Centers in Minority
Institutions Awards

RCPAs — Research Career Program Awards

R&D — Research and Development

R01 — DRG code for traditional research project grants
(see Table 26 for classification of other research grants)

SBIR — Small Business Innovation Research

INDEX

	Pages		Pages
Abbreviations	72-73	Competing R01s, average length in years	51
Acquired Immunodeficiency Syndrome (AIDS)	15,17,68	Constant dollars	
Applications, research grant (time series)	36-37	Average size of award	49-50,52-54
Number of applications	37	BRDPI	Inside back cover
Appropriations, NIH (time series)	7	Health R&D	4
Average length of R01 awards	51	Obligations	9
Average size of awards	49-50,52-54	Construction (awards)	
Award rates	35	By performing institution	27,31,34
Awards (see also Construction, Contracts, Research grants, Research training)		By State	32-33
By NIH component	21-25,29,50-54	Number of awards	26-27,30-31,34
By performing institution	26-31,34	Construction (obligations)	8,10-14
By State	32-33	Contracts (awards)	
Number of awards	21,26-27,30-31,34	By NIH component	21-25,50-54
Time series	20-25,28	By performing institution	27,31,34
Basic research	6	By State	32-33
Biomedical R&D price index		Number of awards	21,26-31,34
(also see footnote p. 4)	9,49-50,52-54, Inside back cover	Time series	20,22-25
Biomedical research support and development grants ..	41-44,46-47,49,52-54	Contracts (obligations)	8,10-14
Biotechnology	18	Control programs (awards)	
Cancer control (see Control programs)		(also see footnotes pp. 35-37)	70
Career development awards	55	Control programs (obligations)	8,10-14
Clinical Center	64	Cooperative agreements	70
Clinical trials	19	Definitions	70
Codes, DRG	41-44,46-47,49,52-55	Deflator (biomedical R&D price index)	
Competing research grants	35-37	(see footnote p. 4)	Inside back cover
		Direct activities	8,10-14
		Direct costs, research grants	48
		Educational institutions (see Higher education)	

	Pages		Pages
Equipment	46-47	Intramural research	8,10-14
Federal support for health R&D	2-5	Length (average) of competing R01s	51
Time series	2,4-5	Manpower	
Fellowships (see Individual awards)		FTTP under NIH training programs	56-59
Foreign institutions	26-29,33	NIH personnel	62-63
Foundations (health R&D support)	2	Persons in NIH training programs	60-61
FTTP (full-time training positions) (see Research training)		M.D.s, number of in NIH training programs	60-61
General research support (biomedical research support and development grants)	41-44,46-47,49,52-54	M.D.s, number of with career development awards	55
Grants (see Awards, Construction, Obligations, Research grants, Research training)		Medical schools	5,26-31,34
Health cost, national	1	Minority biomedical research support grants	41-44,46-47,49,52-54
Health R&D support		Morbidity, U.S.	66-67
National and Federal	1-5	Mortality, U.S.	65
By source or performing institution	2-5	National support for health R&D	1-4
Federal, by agency	5	Time series	1-2,4
NIH	2-5	Number of	
Higher education	2-3,5,26-31,48	Applications, research grant (time series)	36-37
Hospitals, awards to	26-31,48	Career development awards	55
Incidence of AIDS	68	Competing and noncompeting research grants	38-41
Indirect costs, research grants	48	Construction awards	20,26-31,34
Individual awards (Fellowships)		Contracts (awards)	20-31,34
Awards	10-14,20-21,27,31-34	Equipment grants	46-47
Number of awards	20-27,30-31,34	Full-time training positions (FTTP)	56-59
Number of FTTP	56-59	Individual awards	20-31,34
Industry (profit institutions)	2-5,26-29	Institutional grants	20-31,34
Institutional grants		Ph.D.s in NIH training programs	60-61
Awards	10-14,20-25,27,31-34	Ph.D.s with career development awards	55
Number of awards	20-27,30-31,34	Personnel, NIH	62-63
Number of FTTP	56-59	Persons in NIH training programs	60-61
Institutions, number of	26-27	M.D.s in NIH training programs	60-61
		M.D.s with career development awards	55
		Research training awards	20-31,34
		Nutrition research	16

	Pages		Pages
Obligations		Research grants (awards) cont'd	
AIDS research	17	Codes, DRG	41-44,46-47,49,52-55
Biotechnology research	18	Competing and noncompeting	
By NIH Component, program activity, and function/mechanism	10-14	By NIH component	21-25,40,42-44,50-54
Clinical trials	19	By kind (project, center, other)	21,26,32-33,41-47,49,52-54
Health R&D, Federal	2-5	By performing institution	26-31
Nutrition research	16	By State	32-33
Prevention research	15	By type (new, renewal, continuation, supplemental)	38-41
Time series, by function/mechanism	8	Number of awards	39-47
Time series, by NIH component in current and constant dollars	9	Program projects, research	41-47,49,52-54
Organization of NIH	i	Projects, research	21,26,32-33,41-47,49,52-54
Personnel, NIH	62-63	Time series	20,22-25,34-39,45-51
Ph.D.s, number of in NIH training programs	60-61	Traditional	41-44,46-47,49-54
Ph.D.s, number of with career development awards	55	Competing only	35-37
Postdoctoral		Competing R01s, average length in years	51
Number of persons in NIH training programs	60-61	Indirect costs (see also footnote page 37)	48
Number of FTTP	56-59	SBIR	41-44,46-47,49,52-54
Predocctoral		Research grants (obligations)	8,10-14
Number of persons in NIH training programs	60-61	Research grants with equipment budgeted	46-47
Number of FTTP	56-59	Research institutes, awards to	26-29,48
Prevention research	15	Research training (awards)	
Profit institutions (industry)	2-5,26-29	By NIH component	21-25,52-54
Program activities, NIH component	10-14	By performing institution	26-29
Program management	8,10-14	By State	32-33
R&D obligations, Federal	2-5	Fellowships (see Individual awards)	
R&D support, total national	1	Individual awards	20-21,27,31-34
Research career program awards (RCPAs)	41-44,46-47,49,52-54	Institutional grants	20-21,27,31-34
Research grants (awards)		Number of awards	20-21,26-27,30-31,34
Applications	36-37	Time series	20-25,28
Award rates	35	Research training (full-time training positions)	56-59
Biomedical research support and development grants (General research support)	41-44,46-47,49,52-54	Research training (obligations)	8,10-14
Centers, research	21,26,30,32-33,41-47,49,52-54	SBIR awards	41-44,46-47,49,52-54
		Scientific evaluation grants	71
		State and local institutions	2-3,5,26-28
		Technical Notes	69
		Training (see Research training)	
		Voluntary health agencies (health R&D support)	2



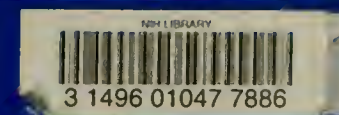
<http://nihlibrary.nih.gov>

10 Center Drive
Bethesda, MD 20892-1150
301-496-1080

NIH BIOMEDICAL RESEARCH AND DEVELOPMENT PRICE INDEX (BRDPI)
FISCAL YEARS 1977-1986
(Weight Base = Fiscal Year 1984)

Year	1977 =100	1978 =100	1979 =100	1980 =100	1981 =100	1982 =100	1983 =100	1984 =100	1985 =100	1986 =100
1977	100.00	93.11	86.03	78.03	70.51	64.82	60.75	57.04	53.96	51.62
1978	107.40	100.00	92.40	83.80	75.73	69.62	65.24	61.26	57.96	55.44
1979	116.24	108.23	100.00	90.70	81.96	75.34	70.61	66.30	62.72	60.00
1980	128.16	119.33	110.25	100.00	90.36	83.07	77.85	73.10	69.16	66.16
1981	141.83	132.05	122.02	110.67	100.00	91.93	86.15	80.90	76.53	73.21
1982	154.27	143.64	132.73	120.38	108.78	100.00	93.72	88.00	83.25	79.64
1983	164.62	153.28	141.63	128.45	116.07	106.71	100.00	93.90	88.83	84.98
1984	175.32	163.24	150.83	136.80	123.61	113.64	106.50	100.00	94.61	90.50
1985	185.31	172.54	159.43	144.60	130.66	120.12	112.57	105.70	100.00	95.66
1986	193.72	180.37	166.66	151.16	136.59	125.57	117.68	110.50	104.54	100.00

NOTE: The BRDPI for FY 1979 forward has been re-based and completely revised. Revisions included incorporation of indirect costs for the higher education sector and use of a new source for higher education personnel data. The values for years prior to FY 1979 have been estimated using the Implicit Price Deflator of the GNP.



NIH in the National Health Scene

Appropriations and Obligations

Extramural Awards

Research Training

NIH Staff and Clinical Center

National Mortality and Morbidity Data

Technical Notes, Definitions, and Abbreviations

Index

BRDPI